

DATE: April 9, 2018

AGENDA ITEM # 4

TO: Environmental Commission

FROM: J. Logan, Staff Liaison

SUBJECT: Review and Discuss 2017/18 Environmental Commission Goals and Work Plan and

Prepare Annual Report to Council at May 1, 2018 Joint Meeting

RECOMMENDATION:

Review the Work Plan and update accordingly; finalize report to Council of Accomplishments of 2017/18 and Goals for 2018/19

BACKGROUND

The Environmental Commission met with the City Council on May 2, 2017 to review its 2016/17 Environmental Commission Accomplishments and Draft 2017/18 Goals and discuss issues and projects for the upcoming year. Based on this discussion, the Goals were finalized and the 2017/18 Work Plan was developed and approved by Council. The approved Work Plan is intended to focus the Commission's agenda items and will serve as a roadmap for projects and activities for the year. In preparation for its joint meeting with City Council on May 1, 2018, the Environmental Commission began to review its 2017/18 accomplishments and 2018/19 goals at its February 12, 2018 meeting.

DISCUSSION

Environmental Commission Goals and resulting Work Plan development targeted for 2017/18 are:

- 1. Climate Action Plan and Community Choice Energy
- 2. Water Conservation and stormwater management
- 3. Solid waste diversion
- 4. Visioning process
- 5. Community outreach
- 6. Special projects as assigned by Council

The Commission will continue discussion and finalize the Accomplishments for its annual 2017/18 Report and finalize development of its 2018/19 Work Plan for discussion with Council at the Joint meeting on May 1, 2018 to be held at 8:15 pm in Room 2, Hillview Community Center.

Attachments:

- A. April 9, 2018- 2017/2018 Goals and Work Plan
- B. Idling Survey and Anti-Idling materials
- C. DRAFT Report to Council with Environmental Commission 2017/18 Accomplishments and DRAFT 2018/19 Work Plan

ENVIRONMENTAL COMMISSION 2017/18 Work Plan

April 9, 2018

Goal	Projects	Assignments	Target	City Priority	Status
			Date	related to	
	Community outreach and education for the implementation of CCE and SVCEA	 Speakers and SVCE staff outreach efforts for residential and business (Bray, Teksler, Hedden) Customer Program Advisory Group (CPAG) V.C. Weiden 	Ongoing	Climate Action Plan Goals and CCE-SVCE implementation	 Downtown Green event, August 20, 12-4pm; 8/2 & 8/4 Senior Center presentation by SVCEA staff Attend CPAG meetings (first meeting 1.17.18)
Climate Action	Resource to Director Bruins	Policy & Program guidance (Teksler, Hedden, Weiden)	Monthly	Climate Action Plan Goals and CCE-SVCE implementation	 Review SVCE packet and recommendations to Director Bruins as needed; request specific clarification from Dir. Bruins MAWG rep to update Dir. Bruins ahead of BOD meetings as needed
Plan & CCE	Partner with Community Development	• Staff	Monthly	Climate Action Plan Goals and CCE-SVCE implementation	Attend MAWG rep with Community Development staff
	Energy efficiency measure for community	Commission to explore and research programs offered by PG&E, Acterra, Energy Upgrade California, CA First (Hedden)	Oct. 2017 workshop with SCCo Office of Sustainability	Climate Action Plan Goals and CCE-SVCE implementation	 Home Upgrade Workshop on Oct. 18, 2017 (approx. 40 attendees, welcomed by Weiden) PG&E streetlight replacement beginning late September 2017
	Research best practice for green building codes and planning requirements	• Commission to engage with staff to research and recommend areas to be reviewed (EV, solar installs, green building measures) (Yuan, Teksler, Halkola)	Final report approved; sent to CD staff for review and comments	Climate Action Plan Goals and CCE-SVCE implementation New community center	 Initial Staff meeting Aug. 16, 2017 Staff shared report with SVCE MAWG at Sept 27, 2017 meeting Application to building of new community center

	With staff, support opportunities for CAP GHG reduction measures.	Commission to support staff's efforts to update CAP with inventory & review of measures	annual	Climate Action Plan Goals and CCE-SVCE implementation	CAP Report with analysis of measures and data in CIP Budget; staff attend Member Agency Work Group (MAWG) meetings.
Climate Action Plan & CCE (cont.)	Environmental Resources Dashboard	Review and enhance GHG reporting and data on Green Initiatives pages of City website (Bray, Eyre, Halkola)	In process	Climate Action Plan Goals and CCE-SVCE implementation	Data collection ongoing. Dashboard updated with data through 2015, 2016 if available
	Anti-Idling Effort	Subcommittee formed (Hedden, Yuan, Weiden)	Discussion on 8-14-17; Meeting with staff 8-25- 17; Update 9-11-17; Meeting with staff 9-18- 17; Update 10-9-17; Update 11-13-17;12-11- 17; 1-8-18; 2-12-18	Climate Action Plan Goals and CCE-SVCE implementation	 Research existing ordinances and enforcement Research educational campaign Discuss regional education effort Outreach to identified partners Implement survey at selected locations
Water Conservation & Stormwater Management	Support community and municipal drought related measures	 Reported by (Eyre) Track water usage via ER Dashboard (Eyre, Bray) Support staff in development of green infrastructure measures (Eyre) 	Summer/Fall focus with ongoing review	Water Conservation Resolution 2015- 15	 Monitor water use Update drought website CalWater presentation 9-11-17
	Stormwater management/shoulder paving policy	Assist staff and review development of storm water plans and reporting (Weiden, Bray, Halkola)	Subcommittee meetings, staff reports	Stormwater Master Plan and Water Conservation	Shoulder paving policy revisions

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Solid Waste Diversion	Review of progress toward diversion goals Focus on composting	• Explore opportunities with staff for public outreach (Weiden, Yuan)	Compost available for community at Sunnyvale SMaRT Station MTWS to provide compost to community at MSC or other Los Altos ocation in Spring 2018	Recycling and diversion	 Compost to made available at MSC Spring 2018 Update on event recycling- add events to CM weekly updates MTWS update March 12, 2018
Visioning Process	Provide environmental perspective to assist visioning process	TBD (Name of Commission assigned)	oner New community center design - ongoing	Provide support to Task Force and Council on natural and built environment	 Participate in discussion on environmental impacts Recommendations sent to Task Force City Council supported recommendation to upgrade to LEED Gold equivalent EC to support zero net carbon (ZNC), all-electric building (ZNE) over LEED Gold equivalent Advocate for mechanical engineer on design team with experience designing all-electric building Participate in LEED Charrette—3-22-18
Community Outreach	Support project implementation by public outreach and education efforts	 City webpages; social mediengage with community gr (Name of Commissioner a Invite speakers to EC mee Work Plan related topics (A Commissioners) 	roups assigned) etings on	Public outreach and education	Partnership with GTLA, SVCEA, community non-profits, community organizations, County Office of Sustainability

	Gas-powered leaf-blower ban review	Commission to review gas-powered leaf-blower ban enforcement data and consider potential outreach/educational campaign (Teksler)	Ongoing	Public outreach and education	Received historical memo from staff; reviewing enforcement data and discussing educational campaign with staff 1-8-18; potential subcommittee formation pending data review.
Special Projects	As assigned by Council	Research and report on membership for City in Mayor's National Climate Action Agenda	July 2017	Climate Action Plan. Request from Mayor Prochnow	Mayor signed letter; Commissioner Weiden to follow activities of the organization
		Research and report on Santa Clara County Climate Resolution	When directed by City Council	Climate Action Plan. Request from City Council	EC reviewed and compared County Resolution and Resolution for Climate Restoration and will provide recommendation at future date, if directed

To: Environmental Commission

From: Anti-Idling Subcommittee (Lei Yuan, Don Weiden)

Subject: Anti-Idling Subcommittee Report

I. Activities since appointment by the Environmental Commission on August 14, 2017:

- August 25, 2017 Gary Hedden and Don Weiden met with Jay Logan and Sarah Henricks –
 Discussed and identified items to be investigated.
- September 1, 2017 Gary Hedden, Lei Yuan and Don Weiden met with Sarah Hendricks Continued discussion of items to be investigated. The City has the ability to post anti-idling signs without an ordinance if approved by Public Works.
- September 6, 2017 Lei Yuan met with Sybil Cramer of the Los Altos High School Green Team and Cheryl Weiden – Sybil stated that the Green Team selects their activities. Sybil would like to see City direction so that School District will take action including posting signs and enforcing antiidling.
- September 11, 2017 Subcommittee report to Environmental Commission.
- September 18, 2017 met with Jay Logan and Sarah Henricks Custom signs would cost \$200 to \$250 each depending on size and graphics. Installation cost could be at nominal if done by City crews on existing posts. The Chief of Police met with the Los Altos High School Superintendent and found support for educational efforts and inclusion in Drivers Education program. Gary Hedden contacted Joe Simitian's office and found his staff willing to discuss and evaluate the subject. Simitian's staff later encouraged continuing grassroots efforts on anti-idling, although the staff would not pick this issue up at this time.
- October 9, 2018 Subcommittee report to Environmental Commission. Environmental Commission authorized conducting surveys.
- November 13, 2018 Oral report to Commission. Survey of Rancho Shopping Center, Hillview/Civic Center and Main Street/State Street completed 11/9. 11/10 and 11/11.
- December 11, 2018 Oral report to Commission. Survey at Los Altos High School completed 12/1, 12/4 and 12/5.
- January 8, 2018 Oral report to Commission. Surveys at K 8 schools to be scheduled after Solar installations are complete.
- February 12, 2018 Oral report to Commission. Survey at Pinewood School done by Pinewood students 1/23, 1/24 & 1/25. Aimi Wen spoke of Pinewood students' interest in anti-idling and interest expressed at High School Environmental Group summit on 1/27.
- March 12, 2018 Oral report to Commission. Surveys at K 8 schools are scheduled, Covington during week of 3/19, Santa Rita during week of 3/26, Blach during week of April 2 and Gardner-Bullis during the week of 4/16.

II. Idling Survey Results

LOCATION	SURVEY TIME	IDLING	OCCUPIED	VEHICLES	AVERAGE
	MINUTES	MINUTES	VEHICLES	IDLING 1+	IDLING
		OBSERVED	WAITING	MINUTES	MINUTES
					PER DAY
RANCHO S CTR	172	111	Did not count	33	37
HILLVIEW/CIVIC	83	12	Did not count	6	4
С					
MAIN/STATE STS	202	66	Did not count	24	22
LOS ALTOS HS	519	1080	431	141	360
PINEWOOD	160	611	259	154	204
COUVINGTON	209	1244	222	142	415
SANTA RITA	200	1986	378	285	662
BLACH (Partial)	95	305	212	75	106
GARDNER-BULLIS	Scheduled for	4/16 – 4/18			

A one-page summary of data collected at each location is attached to the end of this report

III. Idling Survey Observations

1. Surveys at Schools

- a. Some vehicles arrive for student pickup 30+ minutes prior to student discharge and idle the entire time.
- b. Survey recorded idling only in specific zones in the school entry / exit loop from sidewalks. Idling within parking lots, on streets and adjacent areas waiting to enter the school entry / exit loop or waiting for students to walk to the waiting vehicles was significant (probably greater than the surveyed zones) and was not recorded.
- c. Weather was mild on the survey days so Idling was not required for comfort within vehicles.
- d. Activities while idling included activities on mobile devices and talking. Some even exited their vehicle to talk with other adults while their vehicle idled.
- e. School busses turned off their engines.
- f. Pick-up service providers (vans) generally idled their vehicles.
- g. The vast majority of vehicles waiting in the student pickup lane at K-6 schools idled.

2. Surveys at Locations other than Schools

- a. When entering or leaving parking spaces, individuals often become distracted with mobile devices and idle.
- b. Idling occurs when driver waits for a passenger to run an errand in a store.
- c. Idling occurs when food is brought into and consumed in the vehicle.

3. General

- a. More than a majority of occupied vehicles idle while parked.
- b. Generally, vehicle occupants seem unaware and not concerned about idling.
- c. Survey work generated interest in anti-idling among high school students and K 8 student's parents.

IV. Benefits of Reducing Voluntary Vehicle Idling in Los Altos

- 1. Estimated prevention of MT CO2 for Los Altos from the Voluntary Vehicle Idling Study.
 - a. An idling vehicle emits approximately 1.4g of CO2 per second, Reference Vanderbilt paper Article 4.1, Therefore, 455 kilograms of CO2 emission (1.4 x 60 x 5,415 = 454,860) was observed.
 - b. Based on the survey data and a number of assumptions, MT CO2 from voluntary vehicle idling in Los Altos most likely exceeds 94 MT CO2. Schools exceed 66 MT CO2: 180 school days per year, 9 public schools in Los Altos with surveyed average idling of 350 minutes per day, 7 private schools in Los Altos with assumed average idling of 175 minutes per day. Commercial and civic areas most likely exceed 28 MT CO2: 261 commercial/civic days per year, 4 times the survey observed idling minutes per day, 5 times the survey area for the total Los Altos commercial and civic area. Los Altos total most likely exceeds 94 MT CO2 (66 + 28).
- 2. Estimated prevention of MT CO2 for Los Altos Voluntary Vehicle Idling derived from various studies ranged from 47 to 542 MT CO2.
 - a. City of Palo Alto Colleagues Memo dated August 28, 2017 Factoring private vehicle estimate of MT CO2 prevented by population of Los Altos to population of Palo Alto yields 271 to 542 MT CO2.
 - b. Vanderbilt University Paper titled Costly myths: An analysis of idling beliefs and behavior in personal motor vehicles and dated March 4, 2009 – Factoring private vehicle estimate of MT CO2 prevented by number of private vehicles in US to number of vehicles in Los Altos yields 390 MT CO2.
 - c. Improving Toronto's Idling Control Bylaw, McKowen, Toronto Medical Officer of Health, Environmental Protection, 2010, page 6 Factoring Toronto's estimate of total idling MT CO2 by population of Los Altos to population of Toronto yields 1,164 MT CO2. This is approximately 43% of the total idling MT CO2 estimated in #1 and 12% of that estimated in #2 and results in estimated prevention of 47 to 234 MT CO2.
- 3. Environmental Benefits of Reducing Voluntary Vehicle Idling in Los Altos
 - a. Would reduce CO2 emissions and help Los Altos meet its Climate Action Plan (CAP) Greenhouse Gas Target. Of the 43 measures identified in the Los Altos CAP, the reduction in unnecessary idling would rank between 12th and 21st.
 - b. Would reduce the concentration of chemicals hazardous to human health in the air we breath at our schools, public gatherings, recreation events, shopping locations and outside/sidewalk dining locations.
 - c. Would set a standard of good practice and demonstrate leadership for others to follow, magnifying the positive environmental impacts.
- 4. Economic Benefits of Reducing Voluntary Vehicle Idling in Los Altos
 - a. Reduce vehicle maintenance costs. Idling a vehicle is harder on the vehicle's engine, electrical and mechanical systems than turning the vehicle off and on.
 - b. Save fuel costs. Idling passenger vehicles or light duty trucks consume between 0.32 and 0.71 gal/hr of gasoline. If the City's fleet of 71 vehicles idled unnecessarily for 15 minutes per day with gasoline at \$3.50 per gallon the wasted fuel would total approximately \$10,000 per year.

Page **4** of **4** Anti-Idling Subcommittee Report April **4**, 2018

V. Next Steps

- 1. Discuss survey results.
- 2. Consider possible Environmental Commission recommendations.
 - a. Develop an Anti-Idling Ordinance
 - b. Incorporate Anti-Idling into Climate Action Plan Implementation Work Plan Update
 - c. Develop a Community Anti-Idling Education Campaign
 - d. Develop Anti-Idling policy for City Vehicle Fleet
 - e. Cease further work on Anti-Idling
 - f. Other action
- 3. Recommend and present next step(s) to City Council on May 1st as part of the Environmental Commission's work plan.
- 4. Report survey results to K 8 School District, High School and Pinewood.
- 5. Encourage others to move forward on anti-idling as a grassroots activity

Idling Survey Result	S									T	1			
Blach Middle Rita S														
Revised 04/03/2018														
Location	Date	Day	Survey Start Time	Survey End Time	# Cars 1 Min Idl	# Cars 2 Min Idl	# Cars 3 Min Idl	100	# Cars 5+ Min Idl	Survey	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 1	4/2/2018	Monday	14:40	15:30	8	2		2			77		17	Sunny, 73F, Note the 5 vehicles observed idling 5+ min, 2 idled 5+min, 1 idled 6+ min, 1 idled 18+ min, and 1 idled 23+ min, total of 57 min of idling
Zone 2	4/2/2018	Monday	14:40	15:30	2	4	1		5		45		12	Sunny, 73F, Note the 5 vehicles observed idling 5+ min, 2 idled 5+ min, 1 idled 6+ min, and 2 idled 8+ min, total of 32 min of idling
Zone 3	4/2/2018	Monday	14:40	15:30	2	1		1	. 1		13		5	Sunny, 73F, Note the 1 vehicle observed idling 5+ min, idled for 5+ min
Zone 4	4/2/2018	Monday	14:40	15:30			1				3		1	Sunny, 73F
Subtotal					12	7	2	3	11	. 50	138	109	35	
Zone 1	4/3/2018	Tuesday	14:45	15:30		6	3	2	. 2		45		13	Sunny, 70F, Note the 2 vehicles observed idling 5+ min, 1 idled 5+ min, and 1 idled 11+ min, total of 16 min of idling
Zone 2	4/3/2018	Tuesday	14:45	15:30	4	4	. 3	1	. 2		40		14	Sunny, 70F, Note the 2 vehicles observed idling 5+ min, 1 idled 7+ min, and 1 idled 8+ min, total of 15 min of idling
Zone 3	4/3/2018	Tuesday	14:45	15:30		2	2	1	. 8		82		13	Sunny, 70F, Note the 8 vehicles observed idling 5+ min, 1 idled 5+ min, 3 idled 6+ min, 1 idled 9+ min, 1 idled 11+ min, 1 idled 12+ min, and 1 idled 13+ min, total of 68 min of idling
Subtotal					4	1	1			+				
555.5141														
Zone 1	4/5/2018	Thursday	14:40	15:30										

S													
hool													
3													
Date	Day		Survey End					# Cars 5+ Min IdI	Survey Time			Total Vehicles Idling 1+ min	Comments
4/5/2018	Thursday	14:40	15:30			1							
4/5/2018	Thursday	14:40	15:30										
				16	19	10	7	23	95	305	212	75	5
					And the Control of th	pecific zoi	nes and	recorded ac	tivity wit	hin his or her	assigned zo	ne.	
		corded idling in	more than	one zon	e.								
cordeded du	ring the noted	survey times.											
	Date 4/5/2018 4/5/2018 he Blach Miccific car couldiling not including not including the country of the count	Date Day A/5/2018 Thursday A/5/2018 Thursday the Blach Middle School ent cific car could have been reciling not included.	Survey Start Date Day Time 4/5/2018 Thursday 14:40 4/5/2018 Thursday 14:40 the Blach Middle School entry/exit loop. Scific car could have been recorded idling in	Survey Start Survey End Date Day Time Time 4/5/2018 Thursday 14:40 15:30 A/5/2018 Thursday 14:40 15:30 The Blach Middle School entry/exit loop. Survey takers cific car could have been recorded idling in more than illing not included.	Survey Start Survey End 1 Min Time Time Idl 4/5/2018 Thursday 14:40 15:30 4/5/2018 Thursday 14:40 15:30 the Blach Middle School entry/exit loop. Survey takers were as cific car could have been recorded idling in more than one zon illing not included.	Survey Start Survey End 1 Min 2 Min 1dl Idl Idl A/5/2018 Thursday 14:40 15:30 4/5/2018 Thursday 14:40 15:30 he Blach Middle School entry/exit loop. Survey takers were assigned scific car could have been recorded idling in more than one zone.	Survey Start Survey End 1 Min 2 Min HC ars 3 Min Idl Min Idl 4/5/2018 Thursday 14:40 15:30 4/5/2018 Thursday 14:40 15:30 he Blach Middle School entry/exit loop. Survey takers were assigned specific zoncific car could have been recorded idling in more than one zone.	A/5/2018 Thursday 14:40 15:30 A/5/2018 Thursday 14:40 15:30	Survey Start Survey End I Min Idl Idl Min	Alphool Survey Start Survey End In Ingel I	A/5/2018 Thursday 14:40 15:30 The Blach Middle School entry/exit loop. Survey takers were assigned specific zones and recorded activity within his or her cific car could have been recorded idling in more than one zone.	A/5/2018 Thursday 14:40 15:30 The Blach Middle School entry/exit loop. Survey takers were assigned specific zones and recorded activity within his or her assigned zo cific car could have been recorded idling in more than one zone.	A/5/2018 Thursday 14:40 15:30 A/5/2018 Thursday 14:40 15:30

Idling Survey Result	s												T
Couvington School													
Revised 03/23/2018	3												
Location	Date	Day	Survey Start Time	Survey End Time		# Cars 2 Min Idl	# Cars 3 Min Idl	# Cars 5+ Min Idl	Survey	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 1	3/21/2018	Wednesday	14:05	15:15	5	; 3	1	16	5	234		25	Cloudy, 66F, Note the 16 vehicles observed idling 5+ min, 3 idled 6+ min, 1 idled 7+ min, 2 idled 8+ min, 1 idled 9+ min, 1 kdled 10+ min, 1 idled 12+ min, 3 idled 15+ min, 1 idled 21+ min, 2 idled 22 min and 1 idled 40+ min, total of 222 min 5 of idling
Zone 2	3/21/2018	Wednesday	14:05	15:15	1	. 3		7	7	89		11	Cloudy, 66F, Note the 7 vehicles observed idling 5+ min, 1 idled 6+ min, 1 idled 10+ min, 3 idled 11+ min, 1 idled 16+ min and 1 idled 17+ min, total of 82 min of idling
Subtotal		•			6	6	1	23	3 70	323	64		
Zone 1	3/22/2018	Thursday	13:03	14:10	1	. 1	. 1	3 24	1	248		30	Cloudy, Drizzles, 54F, Note the 24 vehicles observed idling 5+ min, 1 idled 5+ min, 2 idled 6+ min, 3 idled 7+ min, 4 idled 8+ min, 1 idled 9+ min, 7 idled 10+ min, 4 idled 13+ min, 1 idled 14+ min, and 1 idled 15+ min, total of 230 min of idling
Zone 2	3/22/2018	Thursday	13:03	14:10	6	5 5	1	10		242		22	Cloudy, Drizzles, 54F, Note the 10 vehicles observed idling 5+ min, 2 idled 6+ min, 1 idled 10+ min, 1 idled 11+ min, 1 idled 12- min, 2 idled 13+ min, 1 idled 17+ min, and 2 2 idled 23+ min, total of 222 min of idling
Zone 3	3/22/2018	Thursday	13:03	14:10		2	1	1		26		4	Cloudy, Drizzles, 54F, Note the vehicle observed idling 5+ min idled for 19 min, total of 19 min of idling
Subtotal		,			7			3 35	67	516	85	1000	
Zone 3 Subtotal Zone 1	3/22/2018	Thursday	13:03		7	8	3	3 35	6 67			56	observed idling 5+ min idled for total of 19 min of idling

Idling Survey Results	5													
Couvington School														
Revised 03/23/2018	3													
Location	Date	Day	Survey Start Time	Survey End Time	# Cars 1 Min Idl		# Cars 3 Min Idl		# Cars 5+ Min Idl	Survey	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 2	3/23/2018	Friday	14:05	15:17	3	3	1		13		197		20	Partly Cloudy, 59F, Note the 13 vehicles observed idling 5+ min, 1 idled 6+ min, 2 idled 8+ min, 2 idled 9+ min, 1 idled 10+ min, 2 idled 12+ min, 1 idled 13+ min, 1 idled 14+ min, 1 idled 17+ min, 1 idled 20 min and 1 idled 47+ min, total of 185 min of idling
Zone 3	3/23/2018	Friday	14:05	15:17	2				4		57		6	Partly Cloudy, 59F, Note the 4 vehicles observed idling 5+ min, 1 idled 5+ min, 1 idled 7+ min, 1 idled 13+ min and 1 idled 30+ min, total of 55 min of idling
Subtotal					7	5	1	3	34	72	405	73	50)
TOTALS					20	19	5	6	92	209	1244	222	142	-
Notes														
1. Survey area was t							akers wer	e assign	ed specific a	ones and	d recorded ac	tivity within	his or her a	assigned zone.
Therefore, a spec			corded idling in	more than	one zon	2.								
2. Electric vehicle idi														
Idling was only re-														1 = 104,496) was observed

Idling Survey Results														
Revised 12/5/2017														
													Total	
V. 194			Survey Start		1 Min	# Cars 2 Min	# Cars 3	The second	# Cars 5+	Control of the Contro	Idling Time		Vehicles Idling 1+	
Location	Date	Day	Time	Time	Idl	Idl	Min Idl	Idl	Min Idl	Time	Observed	Waiting	min	Comments
Los Altos HS, Almond Av, Pickup / Dropoff Cresent	12/1/2017	Friday	2:10	3:54	4	. 7	4	5	18	104	281	107	38	Clear, Sunny, 63F, Note of the 18 cars observed idling 5+ min, 10 idled 10+ min, 5 idled 20+ min and 1 idled 30+ min, tota of 231 min of idling
Los Altos HS, Jardin Av (Casita to Panchita)	12/1/2017	Friday	2:15	2:58		1			1	. 43	7	19	2	Clear, Sunny, 63F
Los Altos HS, Jardin & Casita	12/1/2017	Friday	3:19	3:43			1	2		24	11	13	3	Clear, Sunny, 63F
Los Altos HS, Almond Av, Pickup / Dropoff Cresent	12/4/2017	Monday	2:10	3:42	8	3 3	3	3	19	92	2 281	103	36	Clear, Sunny, 63F, Note of the 19 cars observed idling 5+ min, 12 idled 10+ min, 5 idled 20+ min, total 246 min of idling
Los Altos HS, Jardin & Casita	12/4/2017	Monday	2:18	2:49			1		1	. 31	. 20	8	2	Clear, Sunny, 63F, Note the one vehicle observed idling 5+ min actually idled for 17 min
Los Altos HS, Jardin & Casita	12/4/2017	Monday	3:10	3:43	1		1	1	. 3	33	32	16	6	Clear, Sunny, 63F, Note of the 3 cars observed idling 5+ min, 1 idled 14 min, total 24 min of idling
Los Altos HS, Almond Av, Pickup / Dropoff Cresent	12/5/2017	Tuesday	2:10	4:00	4	5	6	2	30	110	417	138	47	Clear, Sunny, 66F, Note of the 30 cars observed idling 5+ min, 17 idled 10+ min, 9 idled 15+ min, 4 idled 20+ min, 1 idled 30+ min, total 377 min of idling
Los Altos HS, Jardin & Casita	12/5/2017	Tuesday	2:15	2:51				1		36	4	7	1	Clear, Sunny, 66F
Los Altos HS, Jardin & Casita	12/5/2017	Tuesday	3:07	3:53		3		1	. 2	46	5 27	20	6	Clear, Sunny, 66F, Note of the 2 cars observed idling 5+ min, 1 idled 7 min and one idled 10 min, total 17 min of idling
Costa	12/3/201/	, acsady	3.07	3.33	17	-				3.555,000			141	
						17.5								
Notes														
1. Actual idling times are	reater than o	bserved id	lling times bed	cause idling b	pefore st	tart of ob	servation	and aft	er completion	on of obs	ervation is no	t recorded.		

^{1.} Actual idling times are greater than observed idling times because idling before start of observation and after completion of observation is not recorded.

2. An idling vehicle emits 1.4g of CO2 per second, Reference Vanderbilt paper Article 4.1. Therefore, we observed 90.7 kilograms of CO2 emission (1.4 x 60 x 1080 = 90,720)

3. Survey did not include the following additional pickup areas at LAHS: main parking lot, Almond Ave, Jardin & Los Ninos

Idling Survey Result	S													
Pinewood School														
Revised 01/25/2018	3													
Location	Date	Day	Survey Start	Survey End	# Cars 1 Min Idl		# Cars 3		# Cars 5+ Min Idl	Survey	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 1	1/23/2018	The man and a second	14:40		1			iui	141111101		11	1	7.0	Clear, Sunny, 60F
Zone 2	1/23/2018		14:44	Serial Services							8			Clear, Sunny, 60F
Zone 3	1/23/2018		14:40					1		3	36			Clear, Sunny, 60F, Note of the 3 cars observed idling 5+ min, 2 idled 6+ min, and 1 idled 12+ min, total of 24 min of idling
Zone 4	1/23/2018	Tuesday	14:40	15:20		1					2		1	Clear, Sunny, 60F
Zone 5	1/23/2018	Tuesday	14:40	15:20	4	9	3		1	2	49		18	Clear, Sunny, 65F, Note the 2 vehicles observed idling 5+ min, 1 idled 6+ min and 1 idled 12+ min, total of 18 min of idling
Subtotal					12	18	4	1		40	106	79	40)
Zone 1	1/24/2018	Wednesday	13:03	13:43		1					2		1	Cloudy, 60F
Zone 2	1/24/2018	Wednesday	13:03	13:43		2	1				7		3	Cloudy, 60F
Zone 3	1/24/2018	Wednesday	13:03	13:43				1			4		1	Cloudy, 60F
Zone 4	1/24/2018	Wednesday	13:10	13:43									C	Cloudy, 60F
Zones 5A & 5B	1/24/2018	Wednesday	13:03	13:43	1	1	. 1		1		14		4	Cloudy, 60F, Note the vehicle observed idling 5+min idled for 8+ min
Subtotal					1	4	2	1		40	27	37	9	
Zone 1	1/24/2018	Wednesday	14:40	15:20		2			2	2	14		4	Overcast, Light Rain, 55F
Zone 2	1/24/2018	Wednesday	14:40	15:20	1				8	3	61		9	Overcast, Light Rain, 55F, Note the 8 vehicles observed idling 5+ min, 1 idled 6+ min, 1 idled 7+ min, 1 idled 8+ min, 1 idled 9+ min and 2 idled 10+ min, total of 60 min of idling
Zones 3 & 4	1/24/2018	Wednesday	14:40	15:20		2			1		12			Overcast, Light Rain, 55F, Note the vehicle observed idling 5+min idled for 8+ min
Zone 5A	1/24/2018	Wednesday	14:40	15:20	6	1			2		37		9	Overcast, Light Rain, 55F, Note the 2 vehicles observed idling 5+ min, 1 idled 9+ min and 1 idled 20+ min, total of 29 min of idling

Idling Survey Result	5													
Pinewood School														
Revised 01/25/2018	1													
Location	Date	Day	Survey Start Time	Survey End Time	# Cars 1 Min Idl		# Cars 3 Min Idl		# Cars 5+ Min Idl	Survey Time	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 5B	1/24/2018	Wednesday	14:40	15:20	5	4	2	2	. 1		53		14	Overcast, Light Rain, 55F, Note the vehicl observed idling 5+min idled for 26+ min
Subtotal	1/24/2018	vveullesuay	14.40	13.20	12		4	2	-	-	- 2000			
Subtotal					-	-	-			- 10		A. C.		
Zone 1	1/25/2018	Thursday	15:01	15:14	3	1					5		4	Partly Cloudy, 56F
Zone 2	1/25/2018	Thursday	14:40	15:20	1	. 5	5 2		7		81		15	Partly Cloudy, 56F, Note the 7 vehicles observed idling 5+ min, 1 idled 7+ min, 1 idled 8+ min, 3 idled 9+ min and 2 idled 11+ min, total of 64 min of idling
Zone 3	1/25/2018	Thursday	14:40	15:20	1	3		3	5		69		12	Partly Cloudy, 56F, Note the 5 vehicles observed idling 5+ min, 2 idled 13+ min and 1 idled 14+ min, total of 50 min of idling
Zone 4	1/25/2018		14:40	15:20									10000	Partly Cloudy, 56F
Zone 5A	1/25/2018	Thursday	14:40	15:20	10	4	4	2	. 5		83		25	Partly Cloudy, 56F, Note the 5 vehicles observed idling 5+ min, 2 idled 6+ min, 1 idled 7+ min, and 1 idled 21+ min, total of 45 min of idling
Zone 5B	1/25/2018	Thursday	14:40	15:20		2	. 3	2	. 3		63		10	Partly Cloudy, 56F, Note the 3 vehicles observed idling 5+ min, 1 idled 6+ min, 1 idled 8+ min, and 1 idled 28+ min, total of 42 min of idling
Subtotal		•			15	15	9			40	301	72	66	
TOTALS					40	46	17	11	. 40	160	611	259	154	
Notes														
Survey area was t could have been				ents were a	ssigned	specific z	ones and	recorde	d activity w	ithin his c	or her assigne	d zone. The	refore, a sp	ecific car
2. Electric vehicle id														
3. Idling was only re	cordeded du	ring the noted s	survey times.	In some case	es idling	was obs	erved at t	he start	of the surve	y time ar	nd after the e	nd of the su	rvey time.	

Idling Survey Results												
Revisded 11/11/2017												
Location	Date	Day	Survey Start Time	Survey End Time		# Cars 2 Min Idl	# Cars 3 Min Idl		# Cars 5+ Min Idl	Survey Time	Idling Time Observed	Comments
Rancho Shoping Center	11/9/2017	Thurs	10:44	11:02		3	3 1		1	1 18	1	4 Cloudy 63 to 67F
Rancho Shoping Center	11/9/2017	Thurs	12:05	12:25		1	2		3	3 20	1	9 Cloudy 63 to 67F
Rancho Shoping Center	11/9/2017	Thurs	2:37	2:51		1	L			14		2 Cloudy 63 to 67F
Rancho Shoping Center	11/10/2017	Fri; Holiday	10:55	11:14	1		2			19		5 Cloudy, Rain, 65F
Rancho Shoping Center	11/10/2017	Fri; Holiday	11:45	12:00				1	. 1	1 15		9 Cloudy, Rain, 65F
Rancho Shoping Center	11/10/2017	Fri; Holiday	2:33	2:49		1	2			16		2 Cloudy, Rain, 65F
Rancho Shoping Center	11/11/2017	Saturday	10:46	11:07			2		1	1 21	. 1	1 Partly Cloudy 61 to 63F
Rancho Shoping Center	11/11/2017	Saturday	12:03	12:26		1	2 1	1	. 2	2 23	2	1 Partly Cloudy 61 to 63F
Rancho Shoping Center	11/11/2017	Saturday	2:15	2:41				2	2 4	1 26		8 Partly Cloudy 61 to 63F
Hillview/Civic Center	11/9/2017	Thurs	11:09	11:25	2				1	16		7 Cloudy 63 to 67F
Hillview/Civic Center	11/9/2017	Thurs	12:44	12:56						12		0 Cloudy 63 to 67F
Hillview/Civic Center	11/9/2017	Thurs	3:24	3:39	1		2			15		5 Cloudy 63 to 67F
Hillview/Civic Center	11/10/2017	Fri; Holiday	11:30	11:40						10		0 Cloudy, Rain, 65F; (HCC, Library & City Closed)
Hillview/Civic Center	11/10/2017	Fri; Holiday	1:15	1:20						5		0 Cloudy, Rain, 65F; (HCC, Library & City Closed)
Hillview/Civic Center	11/10/2017	Fri; Holiday	3:00	3:05						5		0 Cloudy, Rain, 65F; (HCC, Library & City Closed)
Hillview/Civic Center	11/11/2017	Saturday	11:14	11:23						9		0 Partly Cloudy 61 to 63F (Library & City Closed)
Hillview/Civic Center	11/11/2017	Saturday	1:23	2:30						7		0 Partly Cloudy 61 to 63F (Library & City Closed)
Hillview/Civic Center	11/11/2017	Saturday	2:48	2:52						4		0 Partly Cloudy 61 to 63F (Library & City Closed)
Main St / State St	11/9/2017	Thurs	11:30	11:50						20		0 Cloudy 63 to 67F
Main St / State St	11/9/2017	Thurs	1:10	1:41	1			1	. 2	31	1	5 Cloudy 63 to 67F
Main St / State St	11/9/2017	Thurs	3:00	3:16	2	. 1				16		4 Cloudy 63 to 67F
Main St / State St	11/10/2017	Fri; Holiday	11:44	12:16		1	. 2	1	. 2	32	2	1 Cloudy, Rain, 65F
Main St / State St	11/10/2017	Fri; Holiday	1:29	1:49		1				20		2 Cloudy, Rain, 65F
Main St / State St	11/10/2017	Fri; Holiday	3:08	3:30	3		1			22		6 Cloudy, Rain, 65F
Main St / State St	11/11/2017	Saturday	11:26	11:45				1		19		4 Partly Cloudy 61 to 63F
Main St / State St	11/11/2017	Saturday	1:35	1:59	1	. 1		1		24		7 Partly Cloudy 61 to 63F
Main St / State St	11/11/2017	Saturday	3:02	3:20		1			1	18		7 Partly Cloudy 61 to 63F
										457	18	9
Notes												

^{1.} Actual idling times are greater than observed idling times because idling before start of observation and after 5 min of observation is not recorded.

^{2.} An idling vehicle emits 1.4g of CO2 per second, Reference Vanderbilt paper Article 4.1. Therefore, we observed 15.9 kilograms of CO2 emission (1.4 x 60 x 189 = 15,876)

^{3.} If the idling observed is repeated each day for a year the resultant CO2 would be 1.9 Mt (15.88/3 x 365 = 1,931 Kilograms)

^{4.} An estimate of CO2 idling emissions at these three locations would be significantly higher than 1.9 Mt observed because A) we could not observe the entirety of each location during the survey time and B) our survey time was less than 60 minutes each day at each location.

icles g 1+														Idling Survey Result
icles g 1+														Santa Rita School
icles g 1+														Revised 03/28/2018
	Total Vehicles Idling 1+ min	Total Vehicles Waiting	Idling Time	Survey Time	# Cars 5+ Min Idl		# Cars 3 Min Idl		# Cars 1 Min Idl	Survey End Time	Survey Start Time	Day	Date	Location
Sunny, 63F, Note the 35 vehicles observed idling 5+ min, 7 idled 5+min, 4 idled 6+ min, 2 idled 8+ min, 6 idled 9+ min, 2 idled 11+ min, 5 idled 12+ min, 5 idled 13+ min, 1 idled 15+ min, 3 idled 16+ min, 3 idled 17+ min, and 1 idled 19+ min, total of 409 min of idling			451		35	5	6	2		15:15	14:10	Monday	3/26/2018	Zone 1
Sunny, 63F, Note the 6 vehicles observed idling 5+ min, 1 idled 9+ min, 1 idled 12+ min, 1 idled 15+ min, 2 idled 16+ min and 1 idled 19+ min, total of 87 min of idling			113		6	1	5	3	1	15:15	14:10	Monday	3/26/2018	Zone 2
64		100	564	65	41	6	11	5	1					Subtotal
Sunny, 68F, Note the 20 vehicles observed idling 5+ min, 2 idled 5+ min, 8 idled 6+ min, 2 idled 8+ min, 1 idled 9+ min, 5 idled 10+ min, and 2 idled 14+ min, total of 161 min of idling			195		20	3	5	3	1	15:15	14:10	Tuesday	3/27/2018	Zone 1
Sunny, 68F, Note the 23 vehicles observed idling 5+ min, 3 idled 6+ min, 3 idled 7+ min, 1 idled 8+ min, 1 idled 11+ min, 5 idled 12+ min, 3 idled 13+ min, 1 idled 15+ min, 3 idled 16+ min, 1 idled 17+ min, and 2 idled 19+ min, total of 275 min of idling			325		23	4	3	9	7	15:15	14:10	Tuesday	3/27/2018	Zone 2
Sunny, 68F, Note the 9 vehicles observed idling 5+ min, 1 idled 5+ min, 1 idled 6+ min, 2 idled 7+ min, 1 idled 11+ min, 1 idled 16+ min, 1 idled 17+ min, 1 idled 24- min, and 1 idled 53+ min, total of 146 min of idling			162			1	1		5		14:10		3/27/2018	
96	96	149	682	65	52	8	9	14	13					Subtotal
idlir min idle min idler m	32 46	149	325 162	65	23	4	3	9	7	15:15	14:10	Tuesday	3/27/2018	Zone 2 Zone 3

Idling Survey Result	;													
Santa Rita School														
Revised 03/28/2018														
Location	Date	Day	Survey Start Time	Survey End Time	# Cars 1 Min Idl		# Cars 3 Min Idl		# Cars 5+ Min Idl	Survey Time	Idling Time Observed	Total Vehicles Waiting	Total Vehicles Idling 1+ min	Comments
Zone 1	3/28/2018	Wednesday	14:05	15:15	4	5	5	4	41		327		59	Sunny, 78F, Note the 41 vehicles observed idling 5+ min, 9 idled 5+ min, 9 idled 6+ min, 11 idled 7+ min, 5 idled 8+ min, 4 idled 9+ min, and 3 idled 10+ min, total of 282 min of idling
Zone 2	3/28/2018	Wednesday	14:05	15:15	4	9	6	7	17		244		43	Sunny, 78F, Note the 17 vehicles observed idling 5+ min, 4 idled 5+ min, 2 idled 6+ min, 2 idled 8+ min, 1 idled 9+ min, 2 idled 12+ min, 1 idled 13+ min, 2 idled 14+ min, 1 idled 16+ min, I idled 17+ min, and 1 idled 21+ min, total of 176 min of idling
Zone 3	3/28/2018	Wednesday	14:05	15:15	4	4	3	3	; 9		169		23	Sunny, 78F, Note the 9 vehicles observed idling 5+ min, 1 idled 8+ min, 1 idled 10+ min, 1 idled 11+ min, 1 idled 12+ min, 1 idled 13+ min, 1 idled 16+ min, I idled 20+ min, 1 idled 21+ min and 1 idled 25+ min, total of 136 min of idling
Subtotal					12	18	14	14	67	70	740	129	125	
TOTALS					26	37	34	28	160	200	1986	378	3 285	
Notes 1. Survey area was t	he Santa Rita	a School entry/e	xit loop. Surv	ey takers we	ere assig	ned spec	ific zones	and rec	orded activi	ty within	his or her ass	signed zone		
Therefore, a spec														
2. Electric vehicle idi	ling not inclu	ıded.												
3. Idling was only re	ordeded du	ring the noted s	urvey times.											
				nd, Reference	Vande	rbilt pape	er Article	4.1. The	erefore, 166	.8 kilogra	ms of CO2 er	mission (1.4	x 60 x 1986	= 166,824) was observed



1 North San Antonio Road Los Altos, California 94022-3087

MEMORANDUM

DATE: May 1, 2018

TO: City Council

FROM: Environmental Commission

SUBJECT: 2017/18 Environmental Commission Work Plan and Accomplishments;

2018/19 Environmental Commission Draft Target Areas and Work Plan

Before you are the Environmental Commission 2017/18 Work Plan and Accomplishments (covering the period April 2017-April 2018) and the 2018/19 Draft Target Areas and Work Plan.

There were five target areas in 2017/18. Here are the Accomplishments:

1. Climate Action Plan

- a. Finalized Environmental Resources Dashboard on City website to communicate status and tracking of specific environmental initiatives- continue to maintain and update dashboard as data is made available
- b. Commission subcommittee on Green Building developed and finalized a comprehensive white paper with recommendations on model measures to achieve long-term environmental benefit. The Green Building Report was shared with City staff for evaluation and with SVCEA working group as input to development of model ordinances for the region
- c. Commission subcommittee on Anti-idling conducted research on the environmental impacts of an idling reduction, engaged volunteers to identify and survey potential problem areas, coordinated survey efforts with the Police Chief, discussed potential partnerships with Los Altos schools, and considered regional educational efforts
- d. Analyzed history of gas-powered leaf blower ordinance and its enforcement; participated in discussion with staff and Los Altos Police Department on potential outreach and educational ideas to engage the public and encourage compliance with current leaf blower ordinance
- Requested & secured funding in CIP for CAP analysis and update study by staff/consultants
- f. Staff attends Management Advisory Work Group (MAWG) and reports monthly to the Commission
- g. Provided recommendations, as needed, to Director Bruins and City staff on topics and issues addressed or under consideration by SVCEA
- h. Vice Chair Don Weiden appointed to SVCEA Consumer Advisory Working Group

i. Recommended and supported Mayor Prochnow's signing of the Mayor's National Climate Action Agenda

2. Water Conservation/Stormwater Management

- a. Received update from Calwater on water conservation efforts, status, legislative changes, and education
- Commission subcommittee on Shoulder Paving worked with Public Works staff and consultant on revisions to Shoulder Paving Policy; update on progress anticipated Q-1, 2018
- c. Received report on green infrastructure for stormwater management
- d. Followed monthly reports both State and regional on water conservation efforts

3. Solid Waste Diversion

- a. Received annual report from Mission Trails Waste Systems and provided feedback on recycling, diversion and compost efforts including designing labels for trash, recycling and compost bins, monitoring public events waste diversion efforts, methods to achieve an increase diversion rate
- b. Facilitated availability and delivery of compost to Maintenance Services Center to be made available to Los Altos residents- delivery planned for Spring 2018

4. Visioning

- a. Provided comprehensive memo to Hillview Community Center Project Task Force on important environmental design attributes, including creating a model building that sets the standards for future development in Los Altos
- b. Selected a Commissioner and Alternate to participate in the Design Development Working Group to address LEED certification process and design of the building; provided discussion on important design elements; received update on LEED Charrette efforts and continuing plans

5. Community Outreach

- a. Provided presentations and/or booths at Farmer's Market, Downtown Green, Senior Center, Home Upgrade Workshop to educate and encourage public on environmental issues
- b. Facilitated community meetings during implementation of SVCEA
- c. Held a community meeting in June 2017 after the launch of SVCEA to update the community and answer questions
- d. Continued to review SVCEA monthly agendas, reports and be available for Director Bruins to support her efforts

There are five target areas identified in the Draft 2018/19 Work Plan:

1. Climate Action Plan

- a. CAP update and review by staff or consultants
- b. Review current measures and their impact
- c. Work with SVCEA on regional GHG metrics and analysis, updates to Los Altos dashboard
- d. Refine GHG reduction measures to actionable strategies
- e. Continue subcommittees on Anti-Idling and Gas-Powered Leaf Blowers focused at educational outreach to the community
- f. Work with staff to bring recommended Green Building "Reach Codes" to Council
- g. Serve as resource to Director Bruins on policy questions under consideration by SVCEA

2. Visioning Process

- a. Continue working with Design Development Working Group and staff to provide input on the new Community Center project, for example, including creating an allelectric, zero-carbon design
- b. Contribute to Downtown Visioning Process?

3. Community Outreach and Education

- a. Educate residents on City ordinances or Green Initiatives (e.g., Gas-powered leaf blowers, anti-idling, recycling, conclusion of the stormwater and shoulder paving ordinances
- b. Continue supporting project implementation that impacts the environment
- c. Update residents on special events (e.g., compost availability, recycling events, workshops)

4. Water Conservation & Stormwater Management

- a. Continue to track water use on environmental resources dashboard
- b. Monitoring water rates and support CalWater conservation efforts
- c. Assist in development of Green Infrastructure Plan that is due to be adopted by June 2019
- d. Continue to provide input to staff and consultant on shoulder paving ordinance

5. Solid Waste Diversion

- a. Continue to track solid waste diversion on environmental resources dashboard
- b. Continue working with MTWS to discuss ideas and solutions to increase recycling, diversion an composting tactics at special events and throughout the City

We welcome your input and guidance.

On behalf of the Environmental Commissions, Thank you, Laura Teksler Chair, Environmental Commission