



## AGENDA Regular Meeting

### BOARD OF DIRECTORS

June 15, 2017, 6:00 p.m.

Gonzales City Council Chambers  
117 Fourth Street, Gonzales, California

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#### CALL TO ORDER

#### PLEDGE OF ALLEGIANCE

#### ROLL CALL

##### Board Directors

County: Simon Salinas, *President*  
County: John M. Phillips  
Salinas: Gloria De La Rosa, *Alt. Vice-President*  
Salinas: Tony R. Barrera  
Salinas: Kimbley Craig  
Gonzales: Elizabeth Silva  
Soledad: Christopher K. Bourke  
Greenfield: Avelina T. Torres  
King City: Robert S. Cullen, *Vice President*

##### Alternate Directors

County: Luis Alejo  
Salinas: Joseph D. Gunter  
Gonzales: Scott Funk  
Soledad: Carla Stewart  
Greenfield: Yanelly Martinez  
King City: Darlene Acosta

#### TRANSLATION SERVICES AND OTHER MEETING ANNOUNCEMENTS

#### GENERAL MANAGER/CAO COMMENTS

#### DEPARTMENT MANAGER COMMENTS

#### BOARD DIRECTOR COMMENTS

#### PUBLIC COMMENT

Receive public comment from audience on items which are not on the agenda. The public may comment on scheduled agenda items as the Board considers them. Speakers are limited to three minutes at the discretion of the Chair.

#### CONSENT AGENDA:

All matters listed under the Consent Agenda may be enacted by one motion unless a member of the Board, a citizen, or a staff member requests discussion or a separate vote.

1. [Minutes of May 18, 2017, Regular Meeting](#)
2. [April 2017 Claims and Financial Reports](#)
3. [May 2017 Member and Interagency Activity Report](#)
4. [A Resolution Approving Amendment No. 1 Authorizing an Extension to the Professional Service Agreement with AECOM for Preparation of Design and Environmental Review for the Long-Term Facility Needs Study and the Global Organics Energy Clean Fiber and Organics Recovery System to December 31, 2018](#)
5. [A Resolution Approving the Agreement to Participate in the California Public Employees Retirement System \(CalPERS\) Prefunding Plan: California Employers' Retiree Benefit Trust \(CERBT\), to Prefund Other Post-Employment Benefits \(OPEB\) and Designating Certain Positions the Delegation of Authority to Request OPEB Disbursements](#)
6. [Progress Report on Alternative Energy Projects Development](#)

7. [A Resolution Approving A Three Year Professional Services Agreement with Geo-Logic Associates to Provide Groundwater Monitoring Services in an Amount Not to Exceed \\$284,166](#)
8. [A Resolution Establishing the Investment Policy](#)

#### PUBLIC HEARING

9. [A RESOLUTION APPROVING DISPOSAL AND SERVICE FEES EFFECTIVE JULY 1, 2017](#)
  - A. Receive a report from Ray Hendricks, Finance Manager
  - B. Committee Discussion
  - C. Public Hearing
  - D. Recommended Action – Adopt Resolution

#### PRESENTATION

10. [STRATEGIC PLAN 2016-19 GOALS & OBJECTIVE REPORT](#)
  - A. Receive Report from Patrick Mathews, General Manager/CAO
  - B. Public Comment
  - C. Board Discussion
  - D. Recommended Action – None; Informational Only
11. [SOCIAL MEDIA PROGRESS REPORT](#)
  - A. Receive a report from Jenny Mitchell, Recycling Coordinator
  - B. Public Comment
  - C. Board Discussion
  - D. Recommended Action – None; Informational only
12. [CALIFORNIA ENVIRONMENTAL QUALITY ACT FEEDBACK SURVEY RESULTS FOR THE LONG TERM FACILITY NEEDS PROJECT, ENVIRONMENTAL IMPACT REPORT](#)
  - A. Receive Report from Mandy Brooks, Resource Recovery Manager
  - B. Public Comment
  - C. Board Discussion
  - D. Recommended Action – None; Informational only
13. [DE-PACKAGING EQUIPMENT RESEARCH](#)
  - A. Receive Report from Mandy Brooks, Resource Recovery Manager
  - B. Public Comment
  - C. Board Discussion
  - D. Recommended Action – None; Informational only

#### FUTURE AGENDA ITEMS

14. [AGENDA ITEMS – VIEW AHEAD SCHEDULE](#)

#### ADJOURNMENT

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This agenda was posted at the Administration Office of the Salinas Valley Solid Waste Authority, 128 Sun St., Ste 101, Salinas, and on the Gonzales Council Chambers Bulletin Board, 117 Fourth Street, Gonzales, Thursday, June 8, 2017. The Salinas Valley Solid Waste Authority Board will next meet in regular session on, Thursday, August 17, 2017. Staff reports for the Authority Board meetings are available for review at: ► Salinas Valley Solid Waste Authority: 128 Sun Street, Ste. 101, Salinas, CA 93901, Phone 831-775-3000 ► Web Site: [www.salinasvalleyrecycles.org](http://www.salinasvalleyrecycles.org) ► Public Library Branches in Gonzales, Prunedale and Soledad. In compliance with the Americans with Disabilities Act, if you need special assistance to participate in the meeting, please contact Erika J. Trujillo, Clerk of the Board at 831-775-3000. Notification 48 hours prior to the meeting will enable the Authority to make reasonable arrangements to ensure accessibility to this meeting (28 CFR 35.102-35.104 ADA Title II). Spanish interpretation will be provided at the meeting. *Se proporcionará interpretación a Español.*

MINUTES OF  
THE SALINAS VALLEY SOLID WASTE AUTHORITY  
BOARD MEETING  
MAY 18, 2017

CALL TO ORDER

President Salinas called the meeting to order at 6:01 p.m.

ROLL CALL

The following Board Directors were present:

County of Monterey	Simon Salinas
City of Gonzales	Elizabeth Silva
City of Soledad	Christopher K. Bourke
City of Greenfield	Avelina Torres
County of Monterey	John M. Phillips
City of Salinas	Kimbley Craig
City of Salinas	Gloria De La Rosa, <i>Alt. Vice President</i>
City of Salinas	Tony Barrera

The following Board Directors were absent:

City of King                      Robert Cullen, Vice President

Staff Members Present:

Patrick Mathews, General Manager/CAO	Brian Kennedy, Engineering & Environmental
Cesar Zuñiga, Asst. GM/Operations Manager	Compliance Manager
Ray Hendricks, Finance Manager	Erika J. Trujillo, Clerk of the Board
Mandy Brooks, Resource Recovery Manager	Thomas Bruen, General Counsel

MEETING ANNOUNCEMENTS

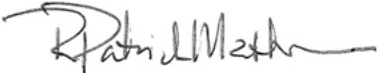
(6:02) None

GENERAL MANAGER COMMENTS

(6:02) General Manager/CAO Mathews acknowledged and congratulated Assistant General Manager/Operations Manager Zuñiga and Finance Manager Hendricks on their recent achievement of obtaining their Bachelor's Degree. Mr. Mathews reported on three public information meetings for the Long-Term Facility Needs Project that have been held and reminded the Board of the last two that will be held the following week.

DEPARTMENT MANAGER COMMENTS

(6:03) Finance Manager Hendricks reported that there was a discrepancy found on the Disposal and Services fee schedule that was approved in March by the Board. He explained the calculation error was under the AB939 section and since discovering it he has been working with the waste haulers to adjust their rate packages. He explained that the analysis provided to the Board at the March meeting was correct. The numbers were transposed incorrectly into the Disposal and Services fee schedule. He went on to inform the Board that a public hearing will be held at the June Board meeting to correct the error. Resource Recovery Manager Brooks reported on the composting workshop that will be held on May 27 in partnership with Local Urban Garden at the Natividad Creek Park. She informed the Board that the City of Soledad's clean up week is on its last days and it will include the free collection of Antifreeze, Batteries, Oil, and Paint (ABOP) on Saturday, with the City of Greenfield's clean up week to begin the upcoming week.

ITEM NO. 1
Agenda Item

General Manager/CAO
T. Bruen by et
General Counsel Approval

BOARD DIRECTORS COMMENTS

(6:05) Director De La Rosa reported on the public information meeting for the Long-Term Facility Needs Project that she attended on May 8. She expressed her concerns for the lack of public participation and noted that she had gone door-to-door in the area around Sun Street Transfer Station to solicit public involvement. Director Craig commented that she was also concerned with the lack of public participation in the meeting held in her District on May 10. Director Barrera reported that he will be at the Mental Health Fun Family Day on Sunday, May 21. Director Torres reported that she will be attending a school event and is requesting reusable bags to distribute.

PUBLIC COMMENT

(6:10) Doug Kenyon, General Manager of Republic Services extend an invitation to the Memorial Day celebration at the Monterey County Vietnam Veterans Memorial in Salinas at 11 a.m. on Monday, May 29.

CONSENT AGENDA (6:11)

1. Minutes April 16, 2017, Regular Meeting
2. March 2017 Claims and Financial Reports
3. April 2017 Member and Interagency Activity Report
4. Strategic Plan 2016-19 Goals & Objectives Monthly Progress Report
5. Tonnage and Diversion Report for the Quarter Ended March 31, 2017
6. Resolution No. 2017-11 Approving a Two-Year Service Agreement with SC Fuels for Purchase and Delivery of Fuel to All Facilities
7. Resolution No. 2017-12 Authorizing the Execution of a Four-Year Professional Service Agreement with SCS Field Services to Provide Environmental Control Systems Operations and Maintenance Services
8. Resolution No. 2017-13 Approving Amendment No. 1 Authorizing a One-Year Extension to the Professional Service Agreement with Rock Steady Juggling for the School Assembly Program in an Amount Not to Exceed \$50,000
9. Resolution No. 2017-14 Approving Amendment No. 1 Authorizing a Two-Year Extension to the Professional Service Agreement with Hope Services Inc. for Materials Processing and Litter Abatement at the Sun Street Transfer Station for an Amount not to Exceed \$322,800 for Two-Years
10. Resolution No. 2017-15 Approving Amendment No. 1 Authorizing an Extension to the Professional Service Agreement with Stericycle Environmental Services for Household Hazardous Waste Transportation and Disposal/Recycling through June 30, 2019
11. Appointment to the Citizens Advisory Group

Public Comment: None

Board Comments: None

Motion: Director Bourke made a motion to approve the consent agenda as presented. Director Craig seconded the motion.

Votes: Motion carried 8,0

Ayes: De La Rosa, Salinas, Silva, Barrera, Torres, Craig, Bourke, Phillips

Noes: None

Abstain: None

Absent: Cullen

## PRESENTATION

### 12. ROCK STEADY JUGGLING PERFORMANCE

(6:13) Resource Recovery Manager Brooks presented Douglas Nolan, founder and owner of Rock Steady Juggling. She explained that he is currently contracted as part of the Authority's Schools Assembly Program bringing an educational performance called **"The Amazing Adventures of the Recycling Wizard"** to schools, libraries and community centers throughout the Salinas Valley to educate children on environmental concepts. With a total of 83 performances by the end of June 2017, he will have reached over 16,000 children. Mr. Nolan conducted a brief performance for the Board.

Public Comment: None

Board Comments: The Board thanked and commended Mr. Nolan for his performance.

Motion: No motion was needed; presentation only.

### 13. VISION RECYCLING OVERVIEW AND MAKING COLOR MULCH PRESENTATION

(6:31) Resource Recovery Manager Brooks presented two videos from Vision Recycling on the process of wood chip dyeing and **Visions Recycling's overall philosophy of sustainably** managing organics locally. She explained that Vision Recycling creates and markets high-quality recycled landscape material and is currently contracted to process the Organics received at all of the Authorities facilities, processing approximately 32,000 tons of Organics annually, making this activity the single largest diversion activity for the Authority. Mrs. Brooks explained the current problem of the contamination of Organic materials received at Johnson Canyon and the process being used to manage it.

Public Comment: None

Board Comments: The Board discussed the presentation and questioned the marketing efforts done to promote the purchasable products and locations.

Motion: No motion was needed; this was an informational item.

### 14. COST-BENEFIT ANALYSIS FOR PROCESSING CONSTRUCTION AND DEMOLITION MATERIAL BY SALINAS VALLEY RECYCLES OR MONTEREY REGIONAL WASTE MANAGEMENT

(6:42) Assistant General Manager/Operations Manager Zuniga presented three options available to process Construction and Demolition (C&D) **received at the Authority's facilities**; transfer materials to the Monterey Regional Waste Management District (MRWMD) for processing at their Material Recycling Facility (MRF) once the remodeling has been completed, establish a simplified C&D sort-line to recover all clean wood and other recyclable materials at the Johnson Canyon Landfill, or continue the current practice of consolidating materials and transferring to the Johnson Canyon Landfill for grinding, and use as Alternative Daily Cover. He explained to the Board the discussions that CalRecycle has been having regarding the possibility of restricting the use of ADC as a diversion activity in the next 4 to 5 years, stating that at that time a different Program would need to be in place. He detailed each of the options pros and cons and provided a cost comparison between the three, detailing the estimated increase that would be required in C&D processing rates per ton for each option.

Public Comment: Doug Kenyon, General Manager of Republic Services, expressed his opinion on not only looking at the cost for each program but to consider what is the highest rate of conversion of the C&D. With new mandates taking effect he feels programs that gives a higher rate on diversion should be considered over cost.

Board Discussion: The Board discussed the presentation. Inquiring about the Monterey Regional Waste Management Material Recovery Facility estimated remodeling completion date, amount of time needed to establishing a sort

line, and the specific date for the new mandates from CalRecycle to stop utilizing it as ADC.

Staff Comments: Mr. Zuñiga further explained that MRWMD is estimating to have its MRF operating by October 2017. He went on to explain that it will take a few months of operating for them to get a better understanding of the recovery rates they can achieve at which time he recommends requesting a revised quote. He clarified that CalRecycle does not yet have a set date for when the C&D will no longer be allowed to be used as ADC, but it is expected to be by 2020. Informing the Board that it would take between six months to a year to get a simplified sort line established.

Motion: By consensus the Board decided to hold off on making a decision on a C&D program until Spring 2018, to allow adequate time for MRWMD to provide a revised quote and evaluate the performance of their upgraded facility.

#### FUTURE AGENDA ITEMS

##### 15. AGENDA ITEMS – VIEW AHEAD SCHEDULE


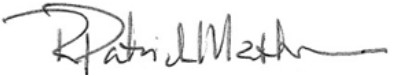
(6:54) The Board reviewed the future agenda items. General Manager/CAO Mathews reviewed the items scheduled for the June Executive Committee and the Board meetings, explaining that with the resignation of Rose Gill, Human Resource/Organizational Development Manager staff will be discussing with the Executive Committee the Authorities Personnel Organizational structure and will be coming back to the Board with information and a recommendation at a later time.

#### ADJOURN

(6:58) President Salinas adjourned the meeting.

APPROVED: \_\_\_\_\_  
Simón Salinas, President

Attest: \_\_\_\_\_  
Erika J. Trujillo, Clerk of the Board

 <p>Report to the Board of Directors</p>	<p>ITEM NO. 2</p>
<p>Date: June 15, 2017</p> <p>From: Ray Hendricks, Finance Manager</p> <p>Title: April 2017 Claims and Financial Reports</p>	<p> Finance Manager/Controller-Treasurer</p> <p> General Manager/CAO</p> <p>N/A General Counsel</p>

## RECOMMENDATION

Executive Committee recommends acceptance of the April 2017 Claims and Financial Reports.

## DISCUSSION & ANALYSIS

Please refer to the attached financial reports and checks issued report for the month of April for a summary of the Authority's financial position as of April 30, 2017. Following are highlights of the Authority's financial activity for the month of April.

### Results of Operations (Consolidated Statement of Revenues and Expenditures)

For the month of April 2017, FY 2016-17 operating revenues exceeded expenditures by \$884,951. Year to Date operating revenues exceeded expenditures by \$4,428,375. A portion of this amount is allocated for the \$2,084,000 in new CIPs approved to be funded in FY 2016-17.

### Revenues (Consolidated Statement of Revenues and Expenditures)

After ten months of the fiscal year, (83.33% of the fiscal year), revenues total \$16,847,241 or 94.9% of the total annual revenues forecast of \$17,745,600. April Tipping Fees totaled \$1,099,534 and for the year to date totaled \$11,132,672 or 95.6% of the forecasted total of \$11,645,600.

### Operating Expenditures (Consolidated Statement of Revenues and Expenditures)

As of April 30, (83.33% of the fiscal year), year-to-date operating expenditures total \$12,418,865. This is 76.9% of the operating budget of \$16,148,000.

### Capital Project Expenditures (Consolidated Grant and CIP Expenditures Report)

For the month of April 2017, capital project expenditures totaled \$28,446. \$8,518 of the total was for SSTs Equipment Replacement.

### Claims Checks Issued Report

The Authority's Checks Issued Report for the month of April 2017 is attached for review and acceptance. April disbursements total \$861,903.74 of which \$413,614.37 was paid from the payroll checking account for payroll and payroll related benefits.

Following is a list of vendors paid more than \$50,000 during the month of April 2017.

Vendor	Service	Amount
CA STATE BOARD OF EQUALIZATION	QTRLY PAYMENT	67,059.50

### Cash Balances

The Authority's cash position increased \$992,609.59 during April to \$20,882,876.49. Most of the cash balance is restricted, committed, or assigned as shown below:

#### Restricted by Legal Agreements:

Johnson Canyon Closure Fund	\$ 3,784,173.63
State & Federal Grants	70,818.09
BNY - Bond 2014A Payment	-
BNY - Bond 2014B Payment	-
BNY - Sub Pmt Cap One 2014 Eq Lease	-
GEO Deposit (CEQA)	(12,642.56)

#### Funds Held in Trust:

Central Coast Media Recycling Coalition	91,407.78
Employee Unreimbursed Medical Claims	(1,128.64)

#### Committed by Board Policy:

AB939 Services	743,194.68
Designated for Capital Projects Reserve	1,018,128.87
Designated for Environmental Impairment Reserve	593,903.31
Designated for Operating Reserve	593,903.31
Expansion Fund (South Valley Revenues)	7,918,034.06
Salinas Rate Stabilization Fund	24,324.06

#### Assigned by Budget

Assigned for Capital Projects	3,420,911.12
Assigned for OPEB	291,400.00

#### Available for Operations

2,346,448.78

Total

\$ 20,882,876.49

### ATTACHMENTS

1. April 2017 Consolidated Statement of Revenues and Expenditures
2. April 2017 Consolidated Grant and CIP Expenditures Report
3. April 2017 Checks Issued Report





# Salinas Valley Solid Waste Authority

## Consolidated Statement of Revenues and Expenditure

### For Period Ending April 30, 2017

	CURRENT BUDGET	M-T-D REV/EXP	Y-T-D REV/EXP	% OF BUDGET	REMAINING BALANCE	Y-T-D ENCUMBRANCES	UNENCUMBERED BALANCE
<b><u>Revenue Summary</u></b>							
Tipping Fees - Solid Waste	11,645,600	1,099,534	11,132,672	95.6 %	512,928	0	512,928
Tipping Fees - Surcharge	1,751,000	156,535	1,546,505	88.3 %	204,495	0	204,495
Tipping Fees - Diverted Materials	1,434,400	210,761	1,704,801	118.9 %	(270,401)	0	(270,401)
AB939 Service Fee	2,228,900	185,742	1,857,420	83.3 %	371,480	0	371,480
Charges for Services	124,500	11,657	72,728	58.4 %	51,772	0	51,772
Sales of Materials	309,500	33,379	215,710	69.7 %	93,790	0	93,790
Gas Royalties	220,000	0	142,835	64.9 %	77,165	0	77,165
Investment Earnings	31,700	55,318	132,351	417.5 %	(100,651)	0	(100,651)
Grants/Contributions	0	0	0	0.0 %	0	0	0
Other Non-Operating Revenue	0	10,426	42,218	0.0 %	(42,218)	0	(42,218)
<b>Total Revenue</b>	<b>17,745,600</b>	<b>1,763,352</b>	<b>16,847,241</b>	<b>94.9 %</b>	<b>898,359</b>	<b>0</b>	<b>898,359</b>
<b><u>Expense Summary</u></b>							
Executive Administration	430,500	23,235	263,808	61.3 %	166,692	671	166,021
Administrative Support	508,290	30,616	358,354	70.5 %	149,936	16,655	133,281
Human Resources Administration	366,360	23,415	282,634	77.1 %	83,726	3,234	80,491
Clerk of the Board	184,050	9,299	120,110	65.3 %	63,940	2,266	61,674
Finance Administration	631,750	26,955	419,911	66.5 %	211,839	2,534	209,305
Operations Administration	325,900	24,602	223,535	68.6 %	102,365	3,165	99,200
Resource Recovery	829,450	53,203	608,212	73.3 %	221,238	14,901	206,337
Marketing	75,000	9,731	50,564	67.4 %	24,436	24,436	0
Public Education	203,700	11,421	98,982	48.6 %	104,718	57,804	46,914
Household Hazardous Waste	734,700	38,048	486,574	66.2 %	248,126	10,626	237,500
C & D Diversion	139,000	0	70,863	51.0 %	68,137	0	68,137
Organics Diversion	796,200	44,622	583,634	73.3 %	212,566	207,136	5,431
Diversion Services	19,000	0	12,283	64.6 %	6,717	4,192	2,525



# Salinas Valley Solid Waste Authority

## Consolidated Statement of Revenues and Expenditure

### For Period Ending April 30, 2017

	CURRENT BUDGET	M-T-D REV/EXP	Y-T-D REV/EXP	% OF BUDGET	REMAINING BALANCE	Y-T-D ENCUMBRANCES	UNENCUMBERED BALANCE
Scalehouse Operations	542,150	38,815	415,885	76.7 %	126,265	8,644	117,621
JR Transfer Station	411,300	17,637	326,505	79.4 %	84,795	3,729	81,066
JR Recycling Operations	98,000	11,638	63,404	64.7 %	34,596	0	34,596
ML Transfer Station	265,000	35,226	296,265	111.8 %	(31,265)	0	(31,265)
SS Disposal Operations	859,100	77,641	704,663	82.0 %	154,437	15,148	139,288
SS Transfer Operations	1,071,000	95,205	834,194	77.9 %	236,806	19,015	217,791
SS Recycling Operations	536,600	28,733	365,823	68.2 %	170,777	0	170,777
JC Landfill Operations	2,411,400	169,549	1,698,054	70.4 %	713,346	140,823	572,522
JC Recycling Operations	370,800	17,981	212,165	57.2 %	158,635	1,074	157,561
Crazy Horse Postclosure Maintenance	552,100	23,449	415,141	75.2 %	136,959	41,417	95,541
Lewis Road Postclosure Maintenance	202,200	4,962	136,799	67.7 %	65,401	18,391	47,010
Johnson Canyon ECS	283,700	6,832	179,663	63.3 %	104,037	44,171	59,866
Jolon Road Postclosure Maintenance	194,450	1,002	154,686	79.6 %	39,764	5,086	34,678
Sun Street ECS	162,700	7,305	102,880	63.2 %	59,820	8,105	51,715
Debt Service - Interest	1,653,300	0	1,653,122	100.0 %	178	0	178
Debt Service - Principal	1,052,300	0	1,052,293	100.0 %	7	0	7
Closure Set-Aside	238,000	47,279	227,859	95.7 %	10,141	0	10,141
Total Expense	16,148,000	878,400	12,418,865	76.9 %	3,729,135	653,225	3,075,910
Revenue Over/(Under) Expenses	1,597,600	884,951	4,428,375	277.2 %	(2,830,775)	(653,225)	(2,177,551)



# Salinas Valley Solid Waste Authority

## Consolidated Grant and CIP Expenditure Report

### For Period Ending April 30, 2017

	CURRENT BUDGET	M-T-D REV/EXP	Y-T-D REV/EXP	% OF BUDGET	REMAINING BALANCE	Y-T-D ENCUMBRANCES	UNENCUMBERED BALANCE
<b>Fund 180 - Expansion Fund</b>							
180 9804 Long Range Facility Needs EIR	531,664	4,084	72,446	13.6 %	459,218	431,371	27,847
180 9805 Harrison Road	75,000	0	76,250	101.7 %	(1,250)	0	(1,250)
180 9806 Long Range Financial Model	95,000	0	34,739	36.6 %	60,261	21,316	38,945
180 9807 GOE Autoclave Final Project	100,000	0	0	0.0 %	100,000	0	100,000
<b>Total Fund 180 - Expansion Fund</b>	<b>801,664</b>	<b>4,084</b>	<b>183,435</b>	<b>22.9 %</b>	<b>618,229</b>	<b>452,687</b>	<b>165,542</b>
<b>Fund 211 - State Grants</b>							
211 9206 HHW HD25-15-0003	23,870	3,494	6,017	25.2 %	17,853	6,022	11,830
211 9208 Tire Amnesty 2015-16	23,193	0	10,190	43.9 %	13,004	1,100	11,904
211 9209 Tire Derived Aggregate 5-15-0004	66,373	0	0	0.0 %	66,373	0	66,373
211 9247 Cal Recycle - CCPP	95,345	0	33,337	35.0 %	62,008	0	62,008
211 9248 Cal Recycle - 2014-15 CCPP	19,517	217	18,762	96.1 %	755	0	755
<b>Total Fund 211 - State Grants</b>	<b>228,299</b>	<b>3,710</b>	<b>68,306</b>	<b>29.9 %</b>	<b>159,992</b>	<b>7,122</b>	<b>152,870</b>
<b>Fund 216 - Reimbursement Fund</b>							
216 9802 Autoclave Demonstration Unit	141,499	0	2,054	1.5 %	139,445	0	139,445
216 9804 Long Range Facility Needs EIR	274,569	3,383	45,938	16.7 %	228,631	227,988	643
<b>Total Fund 216 - Reimbursement Fund</b>	<b>416,067</b>	<b>3,383</b>	<b>47,991</b>	<b>11.5 %</b>	<b>368,076</b>	<b>227,988</b>	<b>140,088</b>
<b>Fund 800 - Capital Improvement Projects Fund</b>							
800 9103 Closed Landfill Revenue Study	31,769	0	0	0.0 %	31,769	0	31,769
800 9316 CH Corrective Action Program	253,000	0	0	0.0 %	253,000	0	253,000
800 9319 CH LFG System Improvements	116,500	0	0	0.0 %	116,500	0	116,500
800 9401 LR LFG Replacement	67,500	222	4,654	6.9 %	62,846	1,218	61,628
800 9502 JC Flare Station Improvements	274,996	0	274,996	100.0 %	0	0	0
800 9506 JC Litter Control Barrier	50,000	4,891	4,891	9.8 %	45,109	17,343	27,765
800 9507 JC Corrective Action	100,000	0	0	0.0 %	100,000	0	100,000
800 9508 JC Drainage Modifications	35,000	0	0	0.0 %	35,000	0	35,000



# Salinas Valley Solid Waste Authority

## Consolidated Grant and CIP Expenditure Report

### For Period Ending April 30, 2017

	CURRENT BUDGET	M-T-D REV/EXP	Y-T-D REV/EXP	% OF BUDGET	REMAINING BALANCE	Y-T-D ENCUMBRANCES	UNENCUMBERED BALANCE
800 9509 JC Groundwater Wells	150,000	1,241	9,967	6.6 %	140,033	2,365	137,668
800 9510 JC LFG System (Vertical Wells)	30,000	0	0	0.0 %	30,000	0	30,000
800 9511 JC LFG System (Horizontal Wells)	30,000	0	24,679	82.3 %	5,321	0	5,321
800 9526 JC Equipment Replacement	80,900	0	0	0.0 %	80,900	0	80,900
800 9527 JC Module 7 Engineering and Cons	350,000	0	0	0.0 %	350,000	0	350,000
800 9528 JC Roadway Improvements	2,218,937	0	0	0.0 %	2,218,937	0	2,218,937
800 9529 JC Leachate Handling Sys	55,531	0	0	0.0 %	55,531	0	55,531
800 9601 JR Transfer Station Improvements	82,000	0	74,338	90.7 %	7,662	6,300	1,362
800 9602 JR Equipment Purchase	556,454	2,397	526,251	94.6 %	30,202	734	29,469
800 9701 SSTs Equipment Replacement	191,260	8,518	138,634	72.5 %	52,626	0	52,626
800 9702 SSTs NPDES Improvements	12,062	0	0	0.0 %	12,062	0	12,062
<b>Total Fund 800 - Capital Improvement Proje</b>	<b>4,685,909</b>	<b>17,269</b>	<b>1,058,411</b>	<b>22.6 %</b>	<b>3,627,498</b>	<b>27,960</b>	<b>3,599,539</b>
<b>Total CIP Expenditures</b>	<b>6,131,939</b>	<b>28,446</b>	<b>1,358,143</b>	<b>22.1 %</b>	<b>4,773,796</b>	<b>715,757</b>	<b>4,058,039</b>

**Salinas Valley Solid Waste Authority**

**Checks Issued Report for 4/1/2017 to 4/30/2017**

<b>Check #</b>	<b>Name</b>	<b>Check Date</b>	<b>Amount</b>	<b>Check Total</b>
18091	ADMANOR, INC SVR MEDIA CAMPAIGNS CCRMC MARKETING HHW GRANT MEDIA CAMPAIGN TIRE AMNESTY MEDIA - IN-KIND	4/6/2017	12,308.47 4,433.78 3,493.70 1,993.75	22,229.70
18092	ALLEN BROTHERS OIL INC. JC VEHICLE MAINTENANCE	4/6/2017	231.00	231.00
18093	ALMARED, INC. SSTS VEHICLE MAINTENANCE HHW VEHICLE SUPPLIES	4/6/2017	9,901.90 182.32	10,084.22
18094	AT&T SERVICES INC TELEPHONE SERVICES	4/6/2017	500.82	500.82
18095	BC LABORATORIES, INC CH WATER SAMPLE TESTING	4/6/2017	2,551.00	2,551.00
18096	BECKS SHOES AND REPAIR JC SAFETY GEAR	4/6/2017	185.09	185.09
18097	CALIFORNIA SOCIETY OF CPAS CALCPA MEMBERSHIP	4/6/2017	410.00	410.00
18098	CDW GOVERNMENT SCALEHOUSE OFFICE SUPPLIES	4/6/2017	485.01	485.01
18099	COAST COUNTIES TRUCK & EQUIPMENT CO. SSTS VEHICLE MAINTENENCE	4/6/2017	1,313.88	1,313.88
18100	CSC OF SALINAS/YUMA SSTS VEHICLE MAINTENANCE EQUIPMENT	4/6/2017	2,411.91	2,411.91
18101	DOUGLAS NOLAN SCHOOL ASSEMBLY PROGRAM	4/6/2017	8,250.00	8,250.00
18102	EAST BAY TIRE CO. JC EQUIPMENT MAINTENANCE	4/6/2017	10,966.24	10,966.24
18103	FERGUSON ENTERPRISES INC #795 JCLF FACILITY MAINTENANCE	4/6/2017	343.82	343.82
18104	FIRST ALARM FACILITY ALARM SERVICE	4/6/2017	1,495.94	1,495.94
18105	FULL STEAM STAFFING LLC ALL SITES CONTRACT LABOR	4/6/2017	4,609.67	4,609.67
18106	GEOLOGIC ASSOCIATES, INC. CH GROUNDWATER MONITORING	4/6/2017	427.00	427.00
18107	GOLDEN STATE TRUCK & TRAILER REPAIR ALL SITES VEHICLE MAINTENANCE	4/6/2017	2,593.33	2,593.33
18108	GONZALES ACE HARDWARE JC VEHICLE MAINTENANCE	4/6/2017	21.05	21.05

**Salinas Valley Solid Waste Authority**  
**Checks Issued Report for 4/1/2017 to 4/30/2017**

Check #	Name	Check Date	Amount	Check Total
18109	GRAINGER SSTS FACILITY MAINTENANCE	4/6/2017	99.60	99.60
18110	GREEN RUBBER - KENNEDY AG, LP JC, JR & SSTS FACILITY	4/6/2017	99.83	99.83
18111	GUARDIAN SAFETY AND SUPPLY, LLC JC SAFETY SUPPLIES	4/6/2017	110.33	110.33
18112	HOME DEPOT ALL SITES FACILITY SUPPLIES	4/6/2017	1,214.58	1,214.58
18113	MANUEL PEREA TRUCKING, INC. EQUIPMENT TRANSPORTATION SERVICES	4/6/2017	250.00	250.00
18114	MANUEL TINAJERO CH & LR LANDSCAPING SERVICES	4/6/2017	900.00	900.00
18115	MARTA M. GRANADOS FY16-17 BD MEETING INTERPRETER	4/6/2017	180.00	180.00
18116	OFFICE DEPOT ADMIN OFFICE SUPPLIES	4/6/2017	128.27	128.27
18117	SALINAS PUMP CO JC FACILITY MAINTENANCE	4/6/2017	1,283.34	1,283.34
18118	SCS ENGINEERS JC LFG ENGINEERS SERVICES	4/6/2017	942.00	942.00
18119	SCS FIELD SERVICES ALL SITES ROUTINE ENVIRONMENTAL	4/6/2017	802.00	802.00
18120	SKINNER EQUIPMENT REPAIR, INC. JC VEHICLE MAINTENANCE	4/6/2017	1,283.66	1,283.66
18121	STURDY OIL COMPANY SSTS VEHICLE MAINTENANCE	4/6/2017	1,438.59	1,438.59
18122	TOYOTA MATERIAL HANDLING HHW EQUIPMENT MAINTENANCE	4/6/2017	157.31	157.31
18123	WILLDAN FINANCIAL SERVICES BOND CONTINUING DISCLOSURE SERVICES	4/6/2017	1,600.00	1,600.00
18124	AMERICAN SUPPLY CO. SSTS JANITORIAL SUPPLIES	4/13/2017	205.23	205.23
18125	BECKS SHOES AND REPAIR SSTS SAFETY SHOES	4/13/2017	180.46	180.46
18126	CALIFORNIA WATER SERVICE JR WATER SERVICE	4/13/2017	139.99	139.99
18127	CARDLOCK FUELS SYSTEM, INC. ALL SITES FUEL	4/13/2017	11,604.13	11,604.13

**Salinas Valley Solid Waste Authority**  
**Checks Issued Report for 4/1/2017 to 4/30/2017**

Check #	Name	Check Date	Amount	Check Total
18128	COAST COUNTIES TRUCK & EQUIPMENT CO. SSTS VEHICLE MAINTENANCE	4/13/2017	204.40	204.40
18129	COSTCO WHOLESALE REPLACEMENT HHW COMPUTER ADMINISTRATION EMPLOYEE RECOGNITION-SSTS	4/13/2017	1,105.02 172.32	1,277.34
18130	CSC OF SALINAS/YUMA SSTS FACILITY MAINTENANCE	4/13/2017	78.19	78.19
18131	EAST BAY TIRE CO. JC VEHICLE MAINTENANCE	4/13/2017	786.49	786.49
18132	EDGES ELECTRICAL GROUP, LLC JRTS FACILITY MAINTENANCE	4/13/2017	214.34	214.34
18133	EXPRESS SAFETY INC SSTS SAFETY GEAR	4/13/2017	497.06	497.06
18134	FIRST ALARM SSTS ALARM SERVICES	4/13/2017	105.00	105.00
18135	GEOLOGIC ASSOCIATES, INC. CH, LR, JR, & ENGINEERING SERVICES	4/13/2017	18,902.25	18,902.25
18136	GOLDEN STATE TRUCK & TRAILER REPAIR ALL SITES VEHICLE MAINTENANCE	4/13/2017	14,634.39	14,634.39
18137	**VOID**	4/13/2017	-	-
18138	GONZALES ACE HARDWARE JC FACILITY MAINTENANCE	4/13/2017	8.64	8.64
18139	L.L. BEAN, INC. EMPLOYEE WORK GEAR	4/13/2017	3,760.25	3,760.25
18140	MALLORY CO. INC HHW SAFETY SUPPLIES	4/13/2017	1,673.40	1,673.40
18141	NCM ODOR CONTROL SSTS FACILITY MAINTENANCE	4/13/2017	11,737.20	11,737.20
18142	NEXTEL OF CALIFORNIA, INC CELL PHONE SERVICE	4/13/2017	322.59	322.59
18143	ONE STOP AUTO CARE/V & S AUTO CARE, INC ENGINEER VEHICLE MAINTENANCE	4/13/2017	83.29	83.29
18144	RONNIE G. REHN SSTS SAFETY SUPPLIES	4/13/2017	87.80	87.80
18145	SALINAS NEWSPAPERS, INC. LEGAL POSTINGS	4/13/2017	442.72	442.72
18146	SCS FIELD SERVICES CH MONTHLY DATA SERVICE ALL SITES ROUTINE ENVIRONMENTAL	4/13/2017	350.00 700.00	1,050.00

**Salinas Valley Solid Waste Authority**

**Checks Issued Report for 4/1/2017 to 4/30/2017**

<b>Check #</b>	<b>Name</b>	<b>Check Date</b>	<b>Amount</b>	<b>Check Total</b>
18147	SHARPS SOLUTIONS, LLC HHW HAULING & DISPOSAL	4/13/2017	160.00	160.00
18148	SKINNER EQUIPMENT REPAIR, INC. JC VEHICLE MAINTENANCE	4/13/2017	1,518.71	1,518.71
18149	STURDY OIL COMPANY VEHICLE MAINTENANCE	4/13/2017	2,905.23	2,905.23
18150	TOMMY DIAZ DOT MEDICAL CARD RENEWAL	4/13/2017	150.00	150.00
18151	A & G PUMPING, INC JRTS PORTABLE TOILET	4/25/2017	105.74	105.74
18152	ALLEN BROTHERS OIL INC. JC VEHICLE MAINTENANCE	4/25/2017	154.61	154.61
18153	AMERICAN SUPPLY CO. ALL SITES JANITORIAL SUPPLIES	4/25/2017	948.25	948.25
18154	ARATA EQUIPMENT COMPANY SSTS VEHICLE MAINTENANCE	4/25/2017	4,008.20	4,008.20
18155	ASBURY ENVIRONMENTAL SERVICES HHW HAULING & DISPOSAL	4/25/2017	160.00	160.00
18156	AT&T SERVICES INC HHW PHONE SERVICES	4/25/2017	311.14	311.14
18157	AUTOZONE LLC. JC VEHICLE MAINTENANCE	4/25/2017	145.89	145.89
18158	BECKS SHOES AND REPAIR SSTS SAFETY GEAR	4/25/2017	185.09	185.09
18159	CALIFORNIA WATER SERVICE SSTS WATER SERVICE	4/25/2017	901.70	901.70
18160	CARDLOCK FUELS SYSTEM, INC. ALL SITES FUEL	4/25/2017	34,320.42	34,320.42
18161	CHICO COMMUNITY PUBLISHING, INC. OUTREACH & ED FOR LTFN PROJECTS	4/25/2017	6,766.38	6,766.38
18162	CITY OF GONZALES JC HOSTING FEE JC UTILITY -WATER	4/25/2017	20,833.33 89.39	20,922.72
18163	COAST COUNTIES TRUCK & EQUIPMENT CO. SSTS VEHICLE MAINTENANCE	4/25/2017	1,196.09	1,196.09
18164	COUNTY OF MONTEREY JC NOTICE OF DETERMINATION FEE	4/25/2017	2,266.25	2,266.25
18165	CSC OF SALINAS/YUMA JR & SSTS VEHICLE MAINTANCE	4/25/2017	291.75	291.75



**Salinas Valley Solid Waste Authority**  
**Checks Issued Report for 4/1/2017 to 4/30/2017**

Check #	Name	Check Date	Amount	Check Total
18166	CUTTING EDGE SUPPLY JC EQUIPMENT MAINT	4/25/2017	262.45	262.45
18167	DENTONI'S WELDING WORK'S INC. SSTS EQUIPMENT MAINTENANCE	4/25/2017	1,296.02	1,296.02
18168	DOUGLAS NOLAN SCHOOL ASSEMBLY PROGRAM	4/25/2017	1,250.00	1,250.00
18169	EAST BAY TIRE CO. JC EQUIPMENT MAINTENANCE	4/25/2017	764.68	764.68
18170	EDGES ELECTRICAL GROUP, LLC SSTS FACILITY MAINTENANCE	4/25/2017	117.86	117.86
18171	EXPRESS SAFETY INC SSTS SAFETY GEAR	4/25/2017	102.03	102.03
18172	FIRST ALARM ALL SITES ALARM SERVICES	4/25/2017	165.00	165.00
18173	FULL STEAM STAFFING LLC JC & SSTS CONTRACTED LABOR	4/25/2017	3,894.04	3,894.04
18174	GEOLOGIC ASSOCIATES, INC. GROUNDWATER MONITORING	4/25/2017	1,669.50	1,669.50
18175	GOLDEN STATE TRUCK & TRAILER REPAIR ALL SITES VEHICLE MAINTENANCE	4/25/2017	20,286.13	20,286.13
18176	**VOID**	4/25/2017	-	-
18177	**VOID**	4/25/2017	-	-
18178	GONZALES ACE HARDWARE JC FACILITY MAINTENANCE	4/25/2017	134.78	134.78
18179	GONZALES TIRE & AUTO SUPPLY JC VEHICLE MAINTENANCE	4/25/2017	1,110.31	1,110.31
18180	GRAINGER JR & SSTS FACILITY MAINTENANCE	4/25/2017	935.58	935.58
18181	GREEN RUBBER - KENNEDY AG, LP JC & SSTS FACILITY MAINT	4/25/2017	194.60	194.60
18182	GUERITO SITES PORTABLE TOILET SERVICES	4/25/2017	1,028.00	1,028.00
18183	HOPE SERVICES SSTS CONTRACT LABOR	4/25/2017	12,332.33	12,332.33
18184	INTERNATIONAL PUBLIC MANAGEMENT ASSOCIATION - HR ADMIN TRAINING	4/25/2017	278.00	278.00

**Salinas Valley Solid Waste Authority**  
**Checks Issued Report for 4/1/2017 to 4/30/2017**

Check #	Name	Check Date	Amount	Check Total
18185	JOSE RAMIRO URIBE SSTS VEHICLE MAINTENANCE	4/25/2017	115.00	115.00
18186	JULIO GIL CH SITE SIGN	4/25/2017	654.22	654.22
18187	KETTLE CREEK CORPORATION REPLACEMENT STICKERS FOR GONZALES CART CORRALS	4/25/2017	216.65	216.65
18188	KING CITY HARDWARE INC. JR FACILITY MAINTENANCE	4/25/2017	248.16	248.16
18189	MANUEL PEREA TRUCKING, INC. JR FACILITY MAINTENANCE	4/25/2017	485.40	485.40
18190	MARK E. FETZER ALL SITES TRAINING	4/25/2017	1,254.00	1,254.00
18191	MARTA M. GRANADOS FY16-17 BD MEETING INTERPRETER	4/25/2017	180.00	180.00
18192	MASKELL PIPE & SUPPLY, INC JC MAINT SUPPLIES	4/25/2017	792.23	792.23
18193	NEXIS PARTNERS, LLC ADMIN BUILDING MAINTENANCE FEES	4/25/2017	9,212.00	9,212.00
18194	OFFICE DEPOT HHW, RR & ADMIN OFFICE SUPPLIES	4/25/2017	2,202.90	2,202.90
18195	PARADIGM SOFTWARE, LLC HHW REPLACEMENT COMPUTER INSTALL	4/25/2017	600.00	600.00
18196	PENINSULA MESSENGER LLC BANK COURIER SERVICES	4/25/2017	620.00	620.00
18197	PHILIP SERVICES CORP HHW DISPOSAL SERVICES	4/25/2017	1,973.00	1,973.00
18198	PINNACLE MEDICAL GROUP PRE EMPLOYMENT EXAM	4/25/2017	75.00	75.00
18199	PITNEY BOWES - POSTAGE ADMIN POSTAGE LEASE	4/25/2017	297.07	297.07
18200	PROBUILD COMPANY LLC SSTS FACILITY MAINTENANCE	4/25/2017	84.83	84.83
18201	PURE WATER BOTTLING ALL SITES POTABLE WATER SERVICE	4/25/2017	539.55	539.55
18202	RONNIE G. REHN JC, SSTS, CH FACILITY MAINTENANCE SUPPLIES	4/25/2017	391.95	391.95
18203	ROSSI BROS TIRE & AUTO SERVICE SSTS VEHICLE MAINTENANCE	4/25/2017	2,104.12	2,104.12

**Salinas Valley Solid Waste Authority**  
**Checks Issued Report for 4/1/2017 to 4/30/2017**

Check #	Name	Check Date	Amount	Check Total
18204	**VOID**	4/25/2017	-	-
18205	SALINAS VALLEY CHAMBER OF COMMERCE EARTH DAY MIXER - SPONSORSHIP	4/25/2017	300.00	300.00
18206	SHARPS SOLUTIONS, LLC HHW DISPOSAL	4/25/2017	120.00	120.00
18207	SKINNER EQUIPMENT REPAIR, INC. JC EQUIPMENT MAINTENANCE	4/25/2017	325.67	325.67
18208	STURDY OIL COMPANY SSTS VEHICLE MAINTENANCE	4/25/2017	925.00	925.00
18209	THOMAS M BRUEN LEGAL SERVICES MARCH	4/25/2017	2,697.18	2,697.18
18210	UNITED RENTALS (NORTHWEST), INC SSTS EQUIPMENT RENTAL	4/25/2017	311.36	311.36
18211	VISION RECYCLING INC GREEN WASTE PROCESSING	4/25/2017	44,621.92	44,621.92
18212	WASTE MANAGEMENT INC MADISON LANE TRANSFER SERVICES	4/25/2017	35,226.15	35,226.15
18213	WESTERN EXTERMINATOR COMPANY FACILITY VECTOR CONTROL	4/25/2017	369.50	369.50
18214	WESTERN TRAILER COMPANY SSTS VEHICLE MAINTENANCE	4/25/2017	3,453.18	3,453.18
DFT2016987	CA STATE BOARD OF EQUALIZATION QUARTERLY BOE PAYMENT	4/25/2017	67,059.50	67,059.50
				<u>67,059.50</u>
	SUBTOTAL			448,289.37
	PAYROLL DISBURSEMENTS			<u>413,614.37</u>
	GRAND TOTAL			<u><u>861,903.74</u></u>



## Report to the Board of Directors

ITEM NO. 3

N/A

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

Legal Counsel

Date: June 15, 2017

From: Mandy Brooks, Resource Recovery Manager

Title: Member and Interagency Activities Report for May 2017 and Upcoming Events

### RECOMMENDATION

Staff recommends the Board accept the report.

### STRATEGIC PLAN RELATIONSHIP

This report relates to the goal to promote the value of Salinas Valley Recycles' services and programs to the community, and is intended to keep the Board apprised of activities and communication with our member agencies and regulators.

#### Monterey County Environmental Health Bureau (Local Enforcement Agency LEA)

The monthly inspection for the Sun Street Transfer Station was conducted on May 23 with no areas of concern or violations. The LEA was notified of one tonnage exceedance at Sun St on May 3 due to the on-going storm-related clean up in Salinas and the surrounding areas.

The monthly inspection of the Johnson Canyon Landfill was conducted on May 31 with no areas of concern or violations noted. The LEA noted the progress on the construction of the litter fence in order to reduce windblown litter on the adjacent field. The LEA was notified that on May 15<sup>th</sup> a small fire ignited at the C&D pile during grinding of the material at Johnson Canyon. The grinder inadvertently tossed a piece of hot metal onto the ground C&D pile and in conjunction with the sustained winds, the pile self-ignited on the top surface area. Staff was able to immediately contain and extinguish the fire and remained on site overnight to ensure suppression.

The monthly inspections of the Jolon Road Transfer Station and Landfill (closed) was completed on May 30, 2017, with no concerns or violations noted.

The quarterly inspections at Lewis Rd Landfill (closed) & Crazy Horse Landfill (closed) were both conducted on May 23 with no areas of concern or notice of violations noted.



#### Solid Waste Facilities Permit Revision:

Staff filed the Notice of Determination with the State Clearinghouse and County to commence the 30-day posting period for the Board adopted Negative Declaration regarding the analysis of potential odor and vector impacts of adding food waste as a feedstock for the composting operation at Johnson Canyon Landfill. The 30-day posting period ended on May 25, 2017 with no comments received. The LEA now has 60 days to review and submit the application to CalRecycle, who then has an additional 60 days in which to concur or reject the facility permit application to complete the revision process.

### King City Franchise Agreement

Staff continues to work with the City Manager and Waste Management to address commercial recycling rates and ancillary fees as part of the new franchise agreement's **rate structure** approved by the City Council in December 2016.

### Gonzales Clothing Closet

During the month of May, the Gonzales Clothing Closet's **4 volunteers distributed** 369 items to 34 clients, representing over 163 family members served. The Clothing Closet is a partnership between SVR, The Salvation Army, and the Gonzales Community Church to provide free clothing to families in need.

### Board Member Participation in Community Events

As part of the six-month objectives of the strategic plan to promote the value of SVR services and programs to the community, six Board Members agreed to attend at least one community event to promote SVR services and programs. Staff was informed that five out of six Board Members either attended a community event or distributed outreach materials to members of the public in order to promote SVR services and programs.

### Future Events with SVR Participation

Gonzales:	6/4	E-waste Collection Event, Johnson Canyon Landfill
	6/24	Composting Workshop, Fairview Middle School
	6/24	ABOP Collection Event, Fairview Middle School
	6/24 & 6/25	Weekend Recycling & Clean Up Event, Fairview Middle School
	6/26	HHW Safe Disposal Presentation, Gonzales Summer Camp
	7/4	4 <sup>th</sup> of July Community Event, Central Park
	8/12	Qrtly ABOP Collection Event, Gonzales Shopping Center
	10/7 & 10/8	Weekend Recycling & Clean Up Event, Fairview Middle School
Greenfield:	8/26	Qrtly ABOP Collection Event, Greenfield Memorial Hall
	8/27	Dia Del Trabajador Agricola Event, Patriot Park
	10/21	Recycling & Clean Up Event, Greenfield Memorial Hall
King City:	7/1	ABOP Collection Event, King City High School
	7/1 – 7/2	Weekend Recycling & Clean Up Event, King City High School
Salinas:	5/31	Health Fair Event, Salinas Valley Memorial Hospital
	6/10	NASA Café Event, Cesar Chavez School
	6/17	District 1 Clean Up Event
	8/19	District 5 Clean Up Event
	9/9	District 3 Clean Up Event
	10/14	Salinas City-Wide Clean Up Event
	11/4	District 6 Clean Up Event
Soledad:	8/13	Fiesta Event, Our Lady of Solitude Church
	9/30	Recycling & Clean Up Event, Soledad High School Parking Lot
Monterey County:	5/31 – 6/1	Composting Presentations, ALBA Farms
	6/3	Qrtly ABOP Collection Event, La Hearne, Prunedale
	6/10	Aromas Clean-Up Event, ABOP Collection
	6/29	Recycling & Composting Presentation, Primavera Migrant Head Start, Chualar
	9/16	Qrtly ABOP Collection Event, La Hearne, Prunedale



## Report to the Board of Directors

ITEM NO. 4

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

General Counsel

Date: June 15, 2017

From: Patrick Mathews, General Manager/CAO

Title: A Resolution Approving Amendment No. 1 Authorizing an Extension to the Professional Service Agreement with AECOM for Preparation of Design and Environmental Review for the Long-Term Facility Needs Study and the Global Organics Energy Clean Fiber and Organics Recovery System to December 31, 2018

### RECOMMENDATION

Staff recommends the Board approve the Resolution authorizing extension of the AECOM agreement through December 18, 2018, to complete preparation of design and environmental review for the Long-Term Facility Needs Study and the Global Organics Energy (GOE) Clean Fiber and Organics Recovery System (CFORS) in conformance with the California Environmental Quality Act (CEQA).

### STRATEGIC PLAN RELATIONSHIP

The recommended action advances the Board's longest standing Strategic Plan Goal to "Select and Implement Facilities (i.e. Salinas Area Materials Recovery Center) and Programs that Lead to Achievement of at least 75% Waste Diversion".

### FISCAL IMPACT

There is no additional cost associated with this extension authorization. All funding for this project agreement was previously encumbered in the Capital Improvements budget and includes reimbursement from GOE for 33% of the project costs.

### DISCUSSION & ANALYSIS

A combination of factors has resulted in this project study work taking far longer than originally anticipated. The complexity of design associated with each of the proposed site plans took much longer than anticipated in order to make sure each project option provided both excellent public access and service, and captured all the most apparent siting issues and mitigations in the proposed facility layouts. In addition, the initiation of the project CEQA scoping period was delayed in order to improve upon and further develop the public information plan, outreach documents and meeting schedules. As a result of these unanticipated delays and the need to retain AECOM through the CEQA certification process next year, the agreement requires extension.

## BACKGROUND

URS Corporation, now AECOM, has provided engineering and environmental services for various configurations and possible re-location of the Salinas Area Materials Recovery Center since a contract was first issued in 2009 following a request for proposals process. Since this project was first considered, it has transitioned from

1) review and preliminary environmental study work of the original integrated waste management system re-location to City of Salinas owned Work Street properties through, 2) various other sites identified or recommended by the City or SVR staff to, 3) the current Long Term Facility Needs Study and GOE Clean Fiber Organics Recovery System environmental review process. The Scope of Work has shifted based on evolving circumstances, such as the proposed Alisal Marketplace development and a possible property exchange of the Sun Street and the Work Street or Hitchcock Road parcels, through reconsideration of the Madison Lane transfer station. The previously approved AECOM Scope of Work is the result of Board action and direction at its November 19, 2015 meeting that now focuses on the 5-projects options recommended by our Citizens Advisory Group. Each option will be studied at the full CEQA project level. This approach will provide the Board with multiple options or combinations of options to choose from without declaring a preferred project option in advance (the typical approach in most CEQA studies).

## ATTACHMENTS

1. Resolution
2. Exhibit A – Amendment No. 1

## RESOLUTION NO. 2017 -

A RESOLUTION OF THE SALINAS VALLEY SOLID WASTE AUTHORITY APPROVING AMENDMENT NO. 1 AUTHORIZING AN EXTENSION TO THE PROFESSIONAL SERVICES AGREEMENT WITH AECOM FOR PREPARATION OF DESIGN AND ENVIRONMENTAL REVIEW OF THE LONG-TERM FACILITY NEEDS STUDY AND GLOBAL ORGANICS CLEAN FIBER AND ORGANICS RECOVERY SYSTEM TO DECEMBER 31, 2018

WHEREAS, on November 19, 2015, the Board of Directors adopted Resolution No. 2015-30 approving a professional services agreement with AECOM for Preparation of the Long Term Facility Needs Study and Global Organics Energy Clean Fiber and Organics Recovery System; and,

WHEREAS, the continuing work on this complex project requires extending the agreement through December 31, 2018 to allow for completion of work-in-progress through Board certification of the final EIR; and,

WHEREAS, SVR is satisfied with AECOM and wishes to maintain continuity of the project studies and provision of support services during the Environmental Impact Report certification, expected to occur in 2018.

NOW THEREFORE, BE IT RESOLVED, BY THE BOARD OF DIRECTORS OF THE SALINAS VALLEY SOLID WASTE AUTHORITY, that the General Manager/CAO is hereby authorized and directed for, and on behalf of, the Salinas Valley Solid Waste Authority to execute Amendment No. 1 extending the Professional Services Agreement with AECOM to December 31, 2018 as attached hereto and marked "Exhibit A".

PASSED AND ADOPTED by the Board of Directors of the Salinas Valley Solid Waste Authority at its regular meeting duly held on the 15<sup>th</sup> day of June 2017, by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

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Simón Salinas, President

ATTEST:

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Erika J. Trujillo, Clerk of the Board





**EXHIBIT A**

**AMENDMENT NO. 1**  
**OF THE PROFESSIONAL SERVICES AGREEMENT BETWEEN**  
**SALINAS VALLEY SOLID WASTE AUTHORITY AND**  
**AECOM**  
**FOR**  
**Preparation of Design and Environmental Review for the Long-Term Facility Needs Study and**  
**the Global Organics Energy Clean Fiber and Organics Recovery System**

This amendment, is made and entered into this 15<sup>th</sup> day of June 2017, by and between the Salinas Valley Solid Waste Authority, a joint powers authority organized under the laws of the State of California (hereinafter "Authority"), and AECOM (hereinafter "Consultant").

The Authority and Consultant entered into an Agreement on November 19, 2015. The initial term of the agreement expires June 30, 2017. All terms of the aforementioned agreement will continue in force with the exception of the following changes:

1. **Completion Schedule**

The Authority and Consultant hereby mutually agree to extend the agreement term to December 31, 2018.

IN WITNESS THEREOF, the parties hereto have made and executed this Amendment No. 1 on the date first above written.

**SALINAS VALLEY SOLID WASTE AUTHORITY:**

APPROVED AS TO FORM:

\_\_\_\_\_  
R. Patrick Mathews  
General Manager/CAO

\_\_\_\_\_  
Thomas M. Bruen  
Authority General Counsel

ATTEST:

\_\_\_\_\_  
Erika J. Trujillo  
Clerk of the Board

**CONSULTANT: AECOM**

\_\_\_\_\_  
Signature

Date: 5/25/2017

STEVE LEACH / VICE PRESIDENT  
Printed Name/Title



ITEM NO. 5

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

General Counsel

Date: June 15, 2017

From: Ray Hendricks, Finance Manager

Title: A Resolution Approving the Agreement to Participate in the California Public Employees Retirement System (CalPERS) Prefunding Plan: **California Employers' Retiree Benefit Trust (CERBT)**, to Prefund Other Post-Employment Benefits (OPEB) and Designating Certain Positions the Delegation of Authority to Request OPEB Disbursements

## RECOMMENDATION

Executive Committee recommends approval of this items, and recommends allocation strategy 3.

## STRATEGIC PLAN RELATIONSHIP

This item does not directly relate to the strategic plan. However, funding Other Post-Employment Benefits (OPEB) through the **California Employers' Retiree Benefit Trust (CERBT)** will allow the Authority to increase the discount rate used, thus reducing this long-term liability.

## FISCAL IMPACT

The Authority began budgeting and designating funds for OPEB in FY 2015-16. Currently, the Authority has \$291,400 reserved, and has budgeted \$146,100 in FY 2017-18 to fund the total annual required contributions.

## DISCUSSION & ANALYSIS

### Election to Participate in the California Employers' Retiree Benefit Trust (CERBT)

An OPEB trust is established in compliance with Internal Revenue Code Section 115 and has the following characteristics: 1) employer contributions are irrevocable; 2) assets provide benefits to retirees and beneficiaries in accordance with the terms of the plan; and 3) assets are legally protected from creditors of the employer or the plan administrator.

Entering an investment management agreement with an OPEB trust provider will allow the Authority to make long-term investments to match its long-term obligation to provide health benefits to retirees. Because professionally-managed long-term investments can be expected to earn a higher rate of return than the short-term investments held by the Authority, establishing and funding an OPEB trust should result in a lower total cost to the Authority for providing retiree healthcare benefits.

CERBT is an IRS Section 115 trust - set up to receive employer contributions that will prefund the OPEB liability for retirees and their beneficiaries. Established in 2007, the CERBT is currently used by over 500 California public agencies to prefund their OPEB liabilities.

The CERBT delivers a diversified investment portfolio, consisting of public market securities, offered to employers in the form of three asset allocation strategies. The three strategies provide a range of expected investment rate of return and corresponding investment return volatility so that employers can match the risk of their portfolio with the liquidity needs of their OPEB plan.

## CERBT asset allocation strategies

	Strategy 1	Strategy 2	Strategy 3
Expected Long Term Rate of Return <small>(General Inflation Rate Assumption of 2.75%)</small>	7.28%	6.73%	6.12%
Standard Deviation of Expected Returns	11.74%	9.32%	7.14%

The lowest return has the lowest volatility, and the highest return has the highest volatility. This is due to the type of investments that each plan is in. Over the past 5 years the three plans have returns of 6.96%, 5.8%, and 4.74%. These returns are lower than the target, but still higher than the Authority can achieve internally. As the chart below shows, the lower return/volatile investments have a higher percentage invested in treasury inflation protected securities.

## CERBT asset class target allocations

Asset Classification	Investment Management	Strategy 1	Strategy 2	Strategy 3
Global Equity	Passive MSCI All Country World Index	57%	40%	24%
Fixed Income	Active Barclays Capital Long Liability Index	27%	39%	39%
Global Real Estate (REITs)	Passive FTSE EPRA/NAREIT Developed Liquid Index	8%	8%	8%
Treasury Inflation Protected Securities (TIPS)	Passive Barclays Capital Global Real: US TIPS Index	5%	10%	26%
Commodities	Active S&P GSCI Total Return Index	3%	3%	3%

The CERBT is a self-funded, not-for-profit trust fund in which participating employers pay for all administrative and investment expenses. The fee rate may vary from year to year and may be changed without prior notice. Over the 10 years that the CERBT has been in operation, the fee rate has ranged from 0.02% to 0.15% of assets held in an employer's account. Currently, annual CERBT expenses are 0.10% of the assets held.

Staff recommends that the Board adopt a resolution approving the Agreement and Election of the Salinas Valley Solid Waste Authority to Prefund Other Post-Employment Benefits through CalPERS, approve the Delegation of Authority to Request Disbursements, and authorize the General Manager or his designees to take any additional actions necessary to participate in the CERBT program.

#### Actuarial Valuation and OPEB Funding Policy

Unlike the Authority's pension plans with CalPERS, the Board is responsible for managing the funding policy of the OPEB plan – how much and when to contribute to pay for benefits.

Our last valuation, for FY 2015-16 estimates our unfunded actuarial accrued liability (UAAL) at \$739,000. This is the pay as you go balance with estimated average returns of 4%. Until the Authority begins to fund OPEB through a trust, this liability will continue to increase.

Using the CERBT allows the Authority to take advantage of higher return rates. The following is based on the June 30, 2015 actuarial, and will be re-evaluated in FY 2017-18. Because the actuary can assume that the OPEB trust will be held in a diversified portfolio of long-term investments and earn a significantly higher rate of return than the Authority's cash pool, a higher discount rate can be used, thus the UAAL will be lower than in the pay-as-you-go scenario:

- A discount rate of 7.25%, based on the long-term expected rate of return of CERBT #1, would reduce our liability to \$439,000.
- A discount rate of 6.75%, based on the long-term expected rate of return of CERBT #2, would reduce our liability to \$472,000.
- A discount rate of 6.25%, based on the long-term expected rate of return of CERBT #3, would reduce our liability to \$509,000

#### BACKGROUND

The Authority provides the contractually minimum PERS medical benefits to retirees. To be eligible, the retiree must have retired directly from the Authority, attained a minimum age of 50, and have earned at least 5 years of CalPERS service or a disability retirement. The benefit consists of part of the premium payments for medical insurance. The benefit is paid monthly directly to CalPERS when health insurance premiums are paid, and generally ceases upon the death of the retiree or voluntary exit from PERS sponsored health care insurance programs.

Unlike the expenses associated with pension benefits, the Authority has historically chosen to pay its OPEB expenses as they come due (the monthly reimbursements) rather than as they are earned.

Payment of OPEB expenses as they come due, rather than as they are earned, results in the accumulation of an unfunded and growing liability for the future benefits. To estimate that liability, and to calculate the annual contribution required to pay down that liability over a specified amortization period (the annual required contribution, or ARC), the Authority's actuary prepares an OPEB valuation report every two years.

The Authority's last OPEB valuation, as of June 30, 2015, estimated a UAAL of \$739,000 and projected an ARC of \$146,100 for FY 2016/17. Recognizing the potential benefit of paying down the OPEB UAAL over time, the Authority Board approved the budget and designation of funds for Other Post-Employment Benefits (OPEB) beginning in FY 2015-16. Currently, the Authority has \$291,400 designated for OPEB reserve, and has budgeted \$146,100 in FY 2017-18 to fund the total annual required contributions.

ATTACHMENT(S)

1. Draft Resolution- Election and Disbursement to CalPERS & OPEB Funding
2. OPEB Actuarial Valuation as of June 30, 2015
3. CalPERS OPEB Prefunding Agreement
4. CalPERS Delegation of Authority to Request Disbursements

## RESOLUTION NO. 2017 -

A RESOLUTION APPROVING THE AGREEMENT TO PARTICIPATE IN THE CALIFORNIA PUBLIC EMPLOYEES RETIREMENT SYSTEM (CALPERS) PREFUNDING PLAN: CALIFORNIA **EMPLOYERS' RETIREE BENEFIT TRUST (CERBT)**, TO PREFUND OTHER POST-EMPLOYMENT BENEFITS (OPEB) AND DESIGNATING CERTAIN POSITIONS THE DELEGATION OF AUTHORITY TO REQUEST OPEB DISBURSEMENTS

WHEREAS the Salinas Valley Solid Waste Authority provides medical benefits to retirees known as other post-employment benefits (OPEB) and currently funds its OPEB expenses on a "pay-as-you-go" basis; and,

WHEREAS the Board desires to prefund other post-employment benefits (OPEB) expenses by establishing an OPEB trust which would allow the Authority to invest its OPEB assets in higher-yielding investments; and,

WHEREAS, to establish an OPEB trust with CalPERS, the Board must approve entering an **agreement with CalPERS entitled "Agreement and Election of Salinas Valley Solid Waste Authority to Prefund Other Post-Employment Benefits through CalPERS"**; and,

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Salinas Valley Solid Waste Authority that the General Manager or his designee is authorized to execute the Agreement and Election of Salinas Valley Solid Waste Authority to Prefund Other Post-Employment Benefits through CalPERS, a copy of which is attached to this resolution as Exhibit A; and,

BE IT FURTHER RESOLVED by the Board of Directors of the Salinas Valley Solid Waste Authority that the General Manager/CAO and Finance Manager/Treasurer/Controller are the designated delegates with the authority to request on behalf of the Salinas Valley Solid Waste Authority disbursements from the Other Post Employment Prefunding Plan and to certify as to the purpose for which the disbursed funds will be used; and,

BE IT FURTHER RESOLVED by the Board of Directors of the Salinas Valley Solid Waste Authority that the General Manager/CAO, or his designee, is authorized to take any additional actions necessary to participate in the CalPERS CERBT program.

PASSED AND ADOPTED by the Board of Directors of the Salinas Valley Solid Waste Authority at the regular meeting duly held on the 15<sup>th</sup> day of June 2017 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

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Simon Salinas, President

ATTEST:

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Erika Trujillo, Clerk of the Board



## **SALINAS VALLEY SOLID WASTE AUTHORITY RETIREE HEALTHCARE PLAN**

June 30, 2015 Actuarial Valuation  
Final Results

### **Bartel Associates, LLC**

Joseph R. D'Onofrio, Assistant Vice President

Matthew Childs, Senior Actuarial Analyst

Katherine Moore, Associate Actuary

**February 17, 2016**

### **CONTENTS**

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## BENEFIT SUMMARY

■ Eligibility	<ul style="list-style-type: none"><li>Retire directly from the Authority (service or disability)</li><li>Board members not eligible</li></ul>																																													
■ Retiree Medical Benefit	<ul style="list-style-type: none"><li>PEMHCA minimum using 5% unequal method</li><li>Authority joined PEMHCA in 2004</li></ul> <table><tr><td></td><td>PEMHCA</td><td>Years</td><td>Unequal</td><td>Authority</td></tr><tr><td></td><td>Minimum</td><td>In</td><td>Method</td><td>Retiree</td></tr><tr><td><u>Year</u></td><td><u>Amount</u></td><td><u>PEMHCA</u></td><td><u>Percent</u></td><td><u>Contribution</u></td></tr><tr><td>2015</td><td>\$122</td><td>11</td><td>55%</td><td>\$ 67.10</td></tr><tr><td>2016</td><td>125</td><td>12</td><td>60%</td><td>75.00</td></tr><tr><td>2017</td><td>128</td><td>13</td><td>65%</td><td>83.20</td></tr><tr><td>2018</td><td>134</td><td>14</td><td>70%</td><td>93.80</td></tr><tr><td>↓</td><td>↓</td><td>↓</td><td>↓</td><td>↓</td></tr><tr><td>2024</td><td>175</td><td>20</td><td>100%</td><td>175.00</td></tr></table> <ul style="list-style-type: none"><li>PEMHCA minimum after 2016 determined by CalPERS based on increase in the medical care component of CPI-U, 2.63% for 2017 (actual 2015 medical care CPI) and 4.5% assumed per year starting with 2018</li></ul>		PEMHCA	Years	Unequal	Authority		Minimum	In	Method	Retiree	<u>Year</u>	<u>Amount</u>	<u>PEMHCA</u>	<u>Percent</u>	<u>Contribution</u>	2015	\$122	11	55%	\$ 67.10	2016	125	12	60%	75.00	2017	128	13	65%	83.20	2018	134	14	70%	93.80	↓	↓	↓	↓	↓	2024	175	20	100%	175.00
	PEMHCA	Years	Unequal	Authority																																										
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↓	↓	↓	↓	↓																																										
2024	175	20	100%	175.00																																										



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## BENEFIT SUMMARY

■ Surviving Spouse Benefit	<ul style="list-style-type: none"> <li>Retiree medical benefit paid to surviving spouse of retiree who elected CalPERS joint &amp; survivor payment option</li> <li>Retiree benefit paid to spouse of active employee who died while eligible to retire receiving CalPERS survivor benefit</li> </ul>
■ PEMHCA Administration Fee	<ul style="list-style-type: none"> <li>0.32% of retiree premium for 2015/16</li> <li>Paid by Authority and included with OPEB costs</li> </ul>
■ Other OPEB	<ul style="list-style-type: none"> <li>No Authority contribution for dental, vision, life insurance, or Medicare Part B premium</li> </ul>



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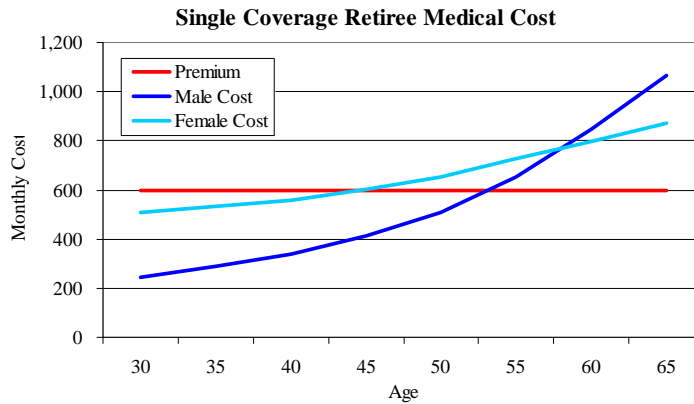




## BENEFIT SUMMARY

### ■ Implied Subsidy

- Retirees pay blended medical premiums rather than expected medical costs by age and gender
- Active premiums subsidize non-Medicare eligible retiree medical costs (“implied subsidy”)



- Implied subsidy required by Actuarial Standards of Practice for actuarial valuations after 3/31/15
- Implied subsidy included with valuation results



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## FUNDING POLICY

### ■ Funding Policy

- Benefit payments made from Authority assets
- No current prefunding in OPEB trust

### ■ Authority Pay-As-You-Go Costs (Financial Statement)

<u>Fiscal Year</u>	<u>PayGo</u>
2014/15	\$800
2013/14	800
2012/13	580



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## PARTICIPANT SUMMARY

### Participant Statistics

Participants	6/30/09	6/30/12	6/30/15
■ Actives			
• Elected Coverage	34	35	43
• Waived Coverage	<u>0</u>	<u>0</u>	<u>1</u>
• Total	34	35	44
• Average Age	40.9	42.8	44.6
• Average Service	2.4	4.9	5.7
• Average Pay	\$61,637	\$64,329	\$60,540
• Total Payroll (000's)	2,096	2,252	2,664
■ Service Retirees			
• Elected Coverage	0	1	2
• Waived Coverage	<u>1</u>	<u>1</u>	<u>3</u>
• Total	1	2	5
• Average Age	63.7	66.5	65.1
• Average Retirement Age	62.7	64.2	62.1



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## PARTICIPANT SUMMARY

### Participant Reconciliation

Participants	Actives	Retirees			
		Service	Disabled	Survivors	Total
■ June 30, 2012	35	2	0	0	2
• Terminations	(2)	-	-	-	-
• New Retirees	(3)	3	0	0	3
• Deaths with Survivor	(0)	(0)	(0)	0	-
• Deaths without Survivor	(0)	(0)	(0)	(0)	(0)
• New Hires	14	-	-	-	-
■ June 30, 2015	44	5	0	0	5



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### ASSUMPTIONS HIGHLIGHTS

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Valuation Date	<ul style="list-style-type: none"> <li>• June 30, 2012</li> <li>• 2012/13, 2013/14 &amp; 2014/15 ARCs</li> </ul>	<ul style="list-style-type: none"> <li>• June 30, 2015</li> <li>• 2015/16 &amp; 2016/17 ARCs</li> <li>• 2017/18 ARC to be determined per GASB 75</li> </ul>
■ Discount Rate	<ul style="list-style-type: none"> <li>• 4.25%</li> <li>• Benefit payments currently made from Authority's assets</li> </ul>	<ul style="list-style-type: none"> <li>• 4.00%</li> <li>• Benefit payments currently made from Authority's assets</li> </ul>
■ PEMHCA Minimum Increases	<ul style="list-style-type: none"> <li>• 4.50% after 2013</li> </ul>	<ul style="list-style-type: none"> <li>• 2017 PEMHCA minimum amount of \$128 per month estimated from 2.63% medical care CPI from 2014 to 2015</li> <li>• 4.50% after 2017</li> </ul>
■ CalPERS Service	<ul style="list-style-type: none"> <li>• Authority hire date for funding entry age</li> </ul>	<ul style="list-style-type: none"> <li>• CalPERS Authority service for entry age</li> </ul>



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### ASSUMPTIONS HIGHLIGHTS

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Mortality, Retirement, Termination, Disability, Merit Pay	<ul style="list-style-type: none"> <li>• CalPERS 1997-2007 Experience Study</li> <li>• Mortality improvement projection Scale AA</li> </ul>	<ul style="list-style-type: none"> <li>• CalPERS 1997-2011 Experience Study</li> <li>• Mortality Improvement Scale MP-2014 modified to converge to ultimate mortality improvement rates in 2022</li> </ul>
■ Participation at Retirement	<ul style="list-style-type: none"> <li>• Actives - 70% participate at retirement</li> <li>• Current and future waived retirees under age 65 - 20% participate after age 65</li> </ul>	<ul style="list-style-type: none"> <li>• Same</li> </ul>
■ PEMHCA Administration Fee	<ul style="list-style-type: none"> <li>• 0.25% of retiree premium</li> </ul>	<ul style="list-style-type: none"> <li>• 0.32% of retiree premium</li> </ul>



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## VALUATION RESULTS

### Actuarial Obligations

Actuarial Obligations	<u>6/30/12 Valuation</u>		<u>6/30/15 Valuation</u>	
	Actual 6/30/12	Projected 6/30/15	Actual 6/30/15	Projected 6/30/16
■ <b>Discount Rate</b>	4.25%	4.25%	4.00%	4.00%
■ <b>Present Value of Benefits</b>				
• Actives	\$739,000	n/a	\$1,778,800	n/a
• Retirees	<u>34,000</u>	<u>n/a</u>	<u>154,700</u>	<u>n/a</u>
• Total	773,000	\$871,500	1,933,500	\$2,002,000
■ <b>Actuarial Accrued Liability</b>				
• Actives	212,300	n/a	584,700	n/a
• Retirees	<u>34,000</u>	<u>n/a</u>	<u>154,700</u>	<u>n/a</u>
• Total	246,200	445,300	739,400	871,500
■ <b>Actuarial Value of Assets</b>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
■ <b>Unfunded AAL</b>	246,200	445,300	739,400	871,500
■ <b>Normal Cost</b>	52,800	58,200	111,300	114,900
■ <b>Pay-As-You-Go Cost</b>	800	2,900	8,600	12,900



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## VALUATION RESULTS

### Estimated Actuarial Gains & Losses

Actuarial Gains & Losses	AAL
■ <b>6/30/12 Actuarial Accrued Liability</b>	\$246,200
■ <b>6/30/15 Projected Actuarial Accrued Liability</b>	445,300
■ <b>Experience Losses (Gains)</b>	
• Actual versus expected PEMHCA minimum	(30,100)
• Demographic & other	(7,000)
■ <b>Assumption Changes</b>	
• CalPERS Authority service for entry age	13,100
• CalPERS demographic assumptions	(2,000)
• Projected mortality improvement	32,800
• PEMHCA administrative fees	2,100
• Discount rate	<u>26,700</u>
■ <b>Total Changes</b>	35,600
■ <b>6/30/15 Cash Subsidy Actuarial Accrued Liability</b>	480,900
• Implied Subsidy	<u>258,500</u>
■ <b>6/30/15 Actual Actuarial Accrued Liability</b>	739,400



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## VALUATION RESULTS

### Annual Required Contributions (ARC)

Annual Required Contribution	<u>6/30/12 Valuation</u>			<u>6/30/15 Valuation<sup>1</sup></u>	
	2012/13	2013/14	2014/15	2015/16	2016/17
■ <b>Discount Rate</b>	4.25%	4.25%	4.25%	4.00%	4.00%
■ <b>ARC - \$</b>					
• Normal Cost	\$52,800	\$54,600	\$56,300	\$111,300	\$114,900
• UAAL Amortization	<u>10,700</u>	<u>13,900</u>	<u>17,500</u>	<u>34,800</u>	<u>42,600</u>
• Total ARC	63,600	68,500	73,800	146,100	157,500
■ <b>Projected Payroll (000s)</b>	2,325	2,401	2,479	2,750	2,840
■ <b>ARC - %</b>					
• Normal Cost	2.3%	2.3%	2.3%	4.0%	4.0%
• UAAL Amortization	<u>0.5%</u>	<u>0.6%</u>	<u>0.7%</u>	<u>1.3%</u>	<u>1.5%</u>
• Total ARC	2.7%	2.9%	3.0%	5.3%	5.5%
■ <b>UAAL Amort Years</b>	27	26	25	24	23

<sup>1</sup> Accounting information for 2017/18 will be determined under GASB 75.



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## VALUATION RESULTS

### Benefit Payment Projection

Fiscal Year	Cash Subsidy			Implied Subsidy	Total Payment
	Current Actives	Current Retirees	Total Cash		
2015/16	\$ 200	\$ 1,800	\$ 2,000	\$ 6,600	\$ 8,600
2016/17	800	2,000	2,800	10,100	12,900
2017/18	1,600	2,200	3,800	12,100	15,900
2018/19	2,600	2,500	5,100	17,200	22,300
2019/20	3,900	3,000	6,900	24,100	31,000
2020/21	5,500	3,300	8,800	19,500	28,300
2021/22	7,400	3,700	11,100	28,800	39,900
2022/23	9,600	4,100	13,700	31,500	45,200
2023/24	12,600	4,400	17,000	34,600	51,600
2024/25	15,100	4,700	19,800	34,500	54,300
PVB <sup>2</sup>	1,158,900	98,600	1,257,500	676,000	1,933,500

<sup>2</sup> Present Value of Benefits for all years, including those after the 10 years shown. The Present Value of Benefits is the discounted value of future expected Authority benefit payments using the valuation discount rate of 4.00%.



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## VALUATION RESULTS

### Actuarial Obligations - Implied Subsidy Estimate

**June 30, 2015 - 4.00% Discount Rate**

Actuarial Obligations	Cash Subsidy	Implied Subsidy	Authority Cost
<b>■ Present Value of Benefits</b>			
• Actives	\$1,158,900	\$619,900	\$1,778,800
• Retirees	<u>98,600</u>	<u>56,100</u>	<u>154,700</u>
• Total	1,257,500	676,000	1,933,500
<b>■ Actuarial Accrued Liability</b>			
• Actives	382,300	202,400	584,700
• Retirees	<u>98,600</u>	<u>56,100</u>	<u>154,700</u>
• Total	480,900	258,500	739,400
<b>■ Plan Assets</b>	<u>0</u>	<u>0</u>	<u>0</u>
<b>■ Unfunded Actuarial Accrued Liability</b>	480,900	258,500	739,400
<b>■ Normal Cost</b>	73,100	38,200	111,300
<b>■ Pay-As-You-Go Cost</b>	2,000	6,600	8,600



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## VALUATION RESULTS

### Annual Required Contribution (ARC) - Implied Subsidy Estimate

**2015/16 Fiscal Year - 4.00% Discount Rate**

Annual Required Contribution	Cash Subsidy	Implied Subsidy	Authority Cost
<b>■ ARC - \$</b>			
• Normal Cost	\$73,100	\$38,200	\$111,300
• UAAL Amortization	<u>22,600</u>	<u>12,200</u>	<u>34,800</u>
• Total ARC	95,700	50,400	146,100
<b>■ Projected Payroll (000's)</b>	2,750	2,750	2,750
<b>■ ARC - %</b>			
• Normal Cost	2.7%	1.4%	4.0%
• UAAL Amortization	<u>0.8%</u>	<u>0.4%</u>	<u>1.3%</u>
• Total ARC	3.5%	1.8%	5.3%



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## VALUATION RESULTS

### Contribution and Unfunded Liability Projection

**4.00% Discount Rate**

(Amounts in 000's)

Fiscal Year End	Actuarial Contribution			Authority Contribution				Unfunded AAL	
	ARC	Projected Payroll	ARC % Pay	Cash Subsidy	Implied Subsidy	Trust Funding	Total Contrib	BOY UAAL	UAAL/ Pay
2016	\$146	\$2,750	5.3%	\$ 2	7	\$0	\$ 9	\$ 739	27%
2017	158	2,840	5.5%	3	10	0	13	871	31%
2018	170	2,932	5.8%	4	12	0	16	1,008	34%
2019	184	3,027	6.1%	5	17	0	22	1,151	38%
2020	199	3,126	6.4%	7	24	0	31	1,297	41%
2021	215	3,227	6.7%	9	19	0	28	1,444	45%
2022	233	3,332	7.0%	11	29	0	40	1,603	48%
2023	253	3,440	7.4%	14	31	0	45	1,761	51%
2024	276	3,552	7.8%	17	35	0	52	1,925	54%
2025	301	3,668	8.2%	20	34	0	54	2,093	57%



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## VALUATION RESULTS

### Estimated Net OPEB Obligation (NOO) Projection

Estimated NOO (Amounts in 000's)	Audit 2012/13	Audit 2013/14	Audit 2014/15	Est 2015/16	Est 2016/17
■ <b>Discount Rate</b>	4.25%	4.25%	4.25%	4.00%	4.00%
■ <b>NOO at Beginning of Year</b>	\$159.0	\$221.9	\$289.0	\$360.8	\$495.8
■ <b>Annual OPEB Cost</b>					
• Annual Required Contribution	63.6	68.5	73.8	146.1	157.5
• Interest on NOO	6.8	9.4	12.3	14.4	19.8
• NOO Adjustment	(6.9)	(10.0)	(13.5)	(17.0)	(24.2)
• Annual OPEB Cost	63.5	67.9	72.6	143.5	153.1
■ <b>Contributions<sup>3</sup></b>					
• Benefit Payments Outside Trust	0.6	0.8	0.8	2.0	2.8
• Implied Subsidy Payments	0.0	0.0	0.0	6.6	10.1
• Trust Funding	0.0	0.0	0.0	0.0	0.0
• Total Contributions	0.6	0.8	0.8	8.6	12.9
■ <b>NOO at End of Year</b>	221.9	289.0	360.8	495.8	636.0
■ <b>NOO Amortization Years</b>	27	26	25	24	23
■ <b>NOO Amortization Factor</b>	22.91	22.17	21.41	21.26	20.45

<sup>3</sup> Estimated contributions for years after 2014/15. Estimated PEMHCA administration expenses are included with estimated cash benefit payments. Estimated items other than the ARC must be revised when actual contributions are known.



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## VALUATION RESULTS

### CERBT OPEB Trust Prefunding Sensitivity<sup>4</sup>

June 30, 2015

(Amounts in 000's)

■ Investment Strategy	CERBT #1	CERBT #2	CERBT #3	PayGo
■ Discount Rate	7.25%	6.75%	6.25%	4.00%
■ Present Value of Benefits	\$916	\$1,015	\$1,129	\$1,934
■ Funded Status 6/30/15				
• Actuarial Accrued Liability	439	472	509	739
• Actuarial Value of Assets	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
• Unfunded AAL	439	472	509	739
■ ARC 2015/16				
• Normal Cost	\$ 60	\$ 66	\$ 72	\$ 111
• UAAL Amortization <sup>5</sup>	<u>29</u>	<u>30</u>	<u>31</u>	<u>35</u>
• Total ARC	89	96	103	146
• ARC % of Payroll	3.3%	3.5%	3.7%	5.3%

<sup>4</sup> Bartel Associates is not an investment advisor and cannot recommend specific OPEB trusts. CERBT funds are shown for illustrative purposes only.

<sup>5</sup> 24-year amortization of Unfunded AAL.



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## VALUATION RESULTS

### CERBT Fund Investment Strategy<sup>6</sup>

■ CERBT Investment Strategy	CERBT #1	CERBT #2	CERBT #3
■ Public Equity	57%	40%	24%
■ Fixed Income	27%	39%	39%
■ REITs	8%	8%	8%
■ TIPS	5%	10%	26%
■ Commodities	<u>3%</u>	<u>3%</u>	<u>3%</u>
■ Total	100%	100%	100%
■ Standard Deviation	11.74%	9.32%	7.14%
■ Long-Term Expected Net Real Return	4.53%	3.98%	3.37%
■ Long-Term Inflation Assumption	<u>3.00%</u>	<u>3.00%</u>	<u>3.00%</u>
■ Long-Term Expected Net Nominal Return	7.53%	6.98%	6.37%
■ Recommended Discount Rate	7.25%	6.75%	6.25%
■ Margin for Adverse Deviation	0.28%	0.23%	0.12%

<sup>6</sup> Standard Deviation and Long-Term Expected Net Real Return provided by CalPERS. Long-Term Inflation Assumption is Bartel Associates' assumption.



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## **High Cost Health Coverage Excise Tax<sup>7</sup>**

- Patient Protection and Affordable Care Act (PPACA) enacted in March 2010 imposed a tax on high cost medical coverage (“Cadillac Tax”)
- Excise tax of 40% beginning in 2020 applied to healthcare costs exceeding annual dollar thresholds<sup>8</sup>
  - \$10,200 for self-only coverage and \$11,850 for individuals aged 55 to 64
  - \$27,500 for non-self-only coverage and \$30,950 for individuals aged 55 to 64<sup>9</sup>
  - 2018 limits subject to increase if benchmark plan’s 2018 premiums are more than 55% higher than 2010 premiums<sup>10</sup>
  - Thresholds will increase for 2019 with CPI + 1%
  - Thresholds will increase for 2020 and later years with CPI
  - Age/gender adjustment if employer’s demographics are substantially different from national workforce

<sup>7</sup> The Consolidated Appropriations Act of 2016 signed into law on 12/18/15 delayed the effective date of the excise tax from 1/1/18 to 1/1/20 and changed it from a nondeductible tax to a deductible tax. Employers should consult with their healthcare providers, tax advisors, and legal counsel regarding the applicability of PPACA enacted taxes.

<sup>8</sup> Effective starting with taxable year beginning on or after 1/1/18 of entity liable for tax. Healthcare costs are premiums for fully-insured plans.

<sup>9</sup> Higher thresholds for self and non-self coverage apply if majority of employees are engaged in high risk professions, including law enforcement officers and employees in fire protection activities.

<sup>10</sup> Benchmark plan is Federal Employees Health Benefits Plan (FEHBP) Blue Cross and Blue Shield Standard Option.



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## **High Cost Health Coverage Excise Tax**

- Plans not currently subject to tax may become subject in future as medical CPI is expected to outpace general CPI
- Paid by insurers for fully insured plans and by employer or TPA for self-insured plans
- GASB 75 and Actuarial Standards of Practice require taxes and assessments expected to be imposed on benefit payments be included in valuations<sup>11</sup>
- Valuation assumes excise tax is added to premium and the additional cost borne by retiree

<sup>11</sup> GASB Statement No. 75, “Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions,” adopted in June 2015 and revised Actuarial Standard of Practice No. 6, “Measuring Retiree Group Benefits Obligations and Determining Retiree Group Benefits Program Periodic Costs or Actuarially Determined Contributions” adopted in May 2014.



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## OPEB Accounting Changes

- OPEB Accounting:
  - GASB Statement No. 75 “Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions,” approved by GASB Board on June 2, 2015
  - Replaces GASB 45
  - Effective for fiscal years beginning after 6/15/17 (2018 for Authority)
- Major Issues:
  - Net OPEB Liability (UAAL) on balance sheet
  - Expense calculation disconnected from contribution calculation
  - Discount rate is expected trust rate of return when assets sufficient to pay benefits
  - Discount rate is 20-year high-quality municipal bond rate when assets not sufficient
  - Immediate recognition of Total OPEB Liability (AAL) for plan changes
  - Deferred recognition of changes in Total OPEB Liability for gains and losses and assumption changes over average active and inactive average future working lifetime
  - Recognition of investment gains and losses over 5 years
  - Disclosure of asset allocation and expected real rates of return for each asset class
  - Entry age normal cost method
  - Biennial actuarial valuations



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## ACTUARIAL CERTIFICATION

This report presents the Salinas Valley Solid Waste Authority Retiree Healthcare Plan (“Plan”) June 30, 2015 actuarial valuation. The purpose of this valuation is to:

- Determine the Governmental Accounting Standards Board Statement Nos. 43 and 45 June 30, 2015 Benefit Obligations,
- Determine the Plan’s June 30, 2015 Funded Status, and
- Calculate the 2015/16 and 2016/17 Annual Required Contributions.

The report provides information intended for reporting under GASB 43 and 45, but may not be appropriate for other purposes. Information provided in this report may be useful to the Authority for the Plan’s financial management. Future valuations may differ significantly if the Plan’s experience differs from our assumptions or if there are changes in Plan design, actuarial methods, or actuarial assumptions. The project scope did not include an analysis of this potential variation.

The valuation is based on Plan provisions, participant data, and asset information provided by the Authority as summarized in this report, which we relied on and did not audit. We reviewed the participant data for reasonableness.

To the best of our knowledge, this report is complete and accurate and has been conducted using generally accepted actuarial principles and practices. Additionally, in our opinion, actuarial methods and assumptions comply with GASB 43 and 45. As members of the American Academy of Actuaries meeting the Academy Qualification Standards, we certify the actuarial results and opinions herein.

Respectfully submitted,

Joseph R. D’Onofrio, FSA, EA, MAAA, FCA  
Assistant Vice President  
Bartel Associates, LLC  
February 17, 2016

Katherine Moore, ASA, MAAA  
Associate Actuary  
Bartel Associates, LLC  
February 17, 2016



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## EXHIBITS

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## PREMIUMS

### **2015 PEMHCA Monthly Premiums** Northern California

Medical Plan	Non-Medicare Eligible			Medicare Eligible		
	Single	2-Party	Family	Single	2-Party	Family
Anthem HMO Select	\$728.65	\$1,457.30	\$1,894.49	\$445.38	\$890.76	\$1,336.14
Anthem HMO Traditional	838.48	1,676.96	2,180.05	445.38	890.76	1,336.14
Blue Shield Access+	804.34	1,608.68	2,091.28	352.63	705.26	1,057.89
Blue Shield NetValue	753.82	1,507.64	1,959.93	352.63	705.26	1,057.89
Kaiser	716.98	1,433.96	1,864.15	295.51	591.02	886.53
UnitedHealthcare	677.35	1,354.70	1,761.11	267.41	534.82	802.23
Anthem EPO	656.08	1,312.16	1,705.81	n/a	n/a	n/a
PERS Choice	656.08	1,312.16	1,705.81	339.47	678.94	1,018.41
PERS Select	646.35	1,292.70	1,680.51	339.47	678.94	1,018.41
PERSCare	725.54	1,451.08	1,886.40	368.76	737.52	1,106.28



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## PREMIUMS

### **2016 PEMHCA Monthly Premiums** Northern California

Medical Plan	Non-Medicare Eligible			Medicare Eligible		
	Single	2-Party	Family	Single	2-Party	Family
Anthem HMO Select	\$839.10	\$1,678.20	\$2,181.66	n/a	n/a	n/a
Anthem HMO Traditional	964.91	1,929.82	2,508.77	n/a	n/a	n/a
Blue Shield Access+	879.96	1,759.92	2,287.90	n/a	n/a	n/a
Blue Shield NetValue	895.17	1,790.34	2,327.44	n/a	n/a	n/a
Kaiser	755.27	1,510.54	1,963.70	\$297.23	\$594.46	\$891.69
UnitedHealthcare	794.80	1,589.60	2,066.48	320.98	641.96	962.94
Anthem EPO	795.57	1,591.14	2,068.48	n/a	n/a	n/a
PERS Choice	795.57	1,591.14	2,068.48	366.38	732.76	1,099.14
PERS Select	727.47	1,454.94	1,891.42	366.38	732.76	1,099.14
PERSCare	886.15	1,772.30	2,303.99	408.04	816.08	1,224.12



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## PARTICIPANT STATISTICS

### **Medical Plan Participation** Non-Waived Participants

Medical Plan	June 30, 2012			June 30, 2015		
	Actives	Retirees		Actives	Retirees	
		< 65	≥ 65		< 65	≥ 65
Blue Shield Access+	6%	0%	0%	5%	0%	0%
PERS Choice	77%	0%	100%	44%	0%	100%
PERS Select	17%	0%	0%	35%	0%	0%
PERSCare	0%	0%	0%	16%	100%	0%
Total	100%	0%	100%	100%	100%	100%



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## PARTICIPANT STATISTICS

### Active Medical Coverage

Medical Plan	Single	2-Party	Family	Waived	Total
Blue Shield Access+			2		2
PERS Choice	2	3	14		19
PERS Select	4	3	8		15
PERSCare	1	2	4		7
Waived				1	1
Total	7	8	28	1	44

Election %	16%	19%	65%		
Waived %				2%	



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## PARTICIPANT STATISTICS

### Retiree Medical Coverage Under Age 65

Medical Plan	Single	2-Party	Family	Waived	Total
Blue Shield Access+					0
PERS Choice					0
PERS Select					0
PERSCare		1			1
Waived				1	1
Total	0	1	0	1	2

Election %	0%	100%	0%		
Waived %				50%	



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## PARTICIPANT STATISTICS

### **Retiree Medical Coverage** **Age 65 & Over**

Medical Plan	Single	2-Party	Family	Waived	Total
Blue Shield Access+					0
PERS Choice		1			1
PERS Select					0
PERSCare					0
Waived				2	2
Total	0	1	0	2	3

Election %	0%	100%	0%		
Waived %				66%	



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## PARTICIPANT STATISTICS

### **Actives by Age and Authority Service** **June 30, 2015**

Age	Authority Service							Total
	< 1	1-4	5-9	10-14	15-19	20-24	≥ 25	
< 25	1							1
25-29			1					1
30-34	2	1	2	1				6
35-39	1	3	3	3				10
40-44	1		4	2				7
45-49	1		3					4
50-54		1	4					5
55-59	3		2	1				6
60-64	1		1	1				3
≥ 65				1				1
Total	10	5	20	9	0	0	0	44



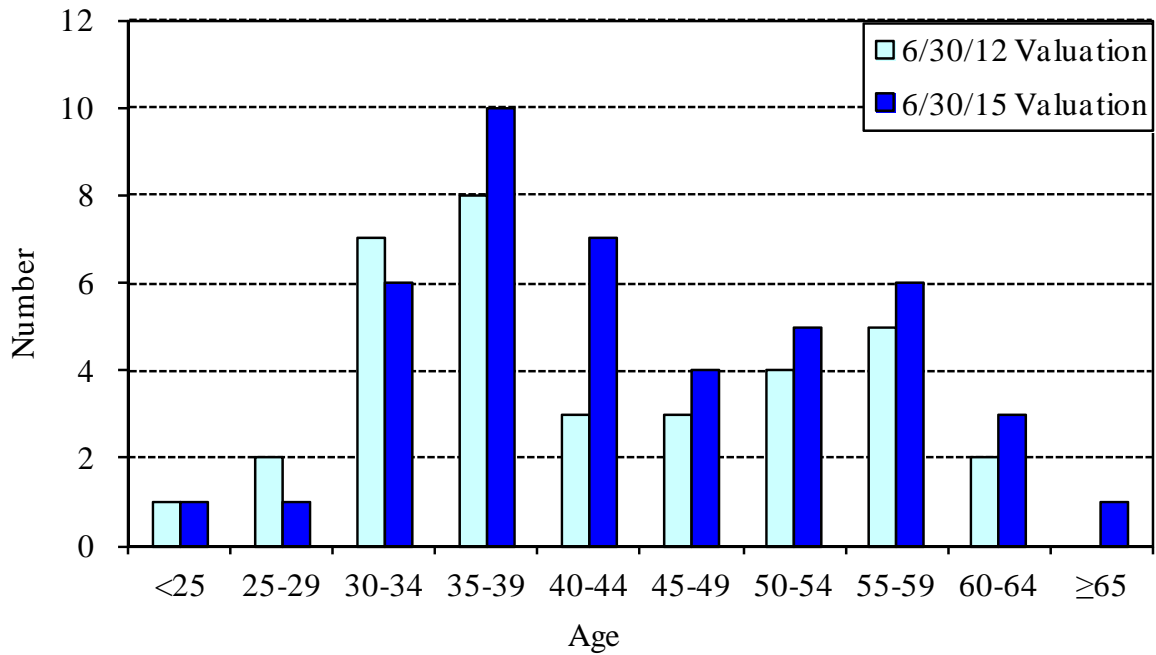
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## PARTICIPANT STATISTICS

### Active Age Distribution



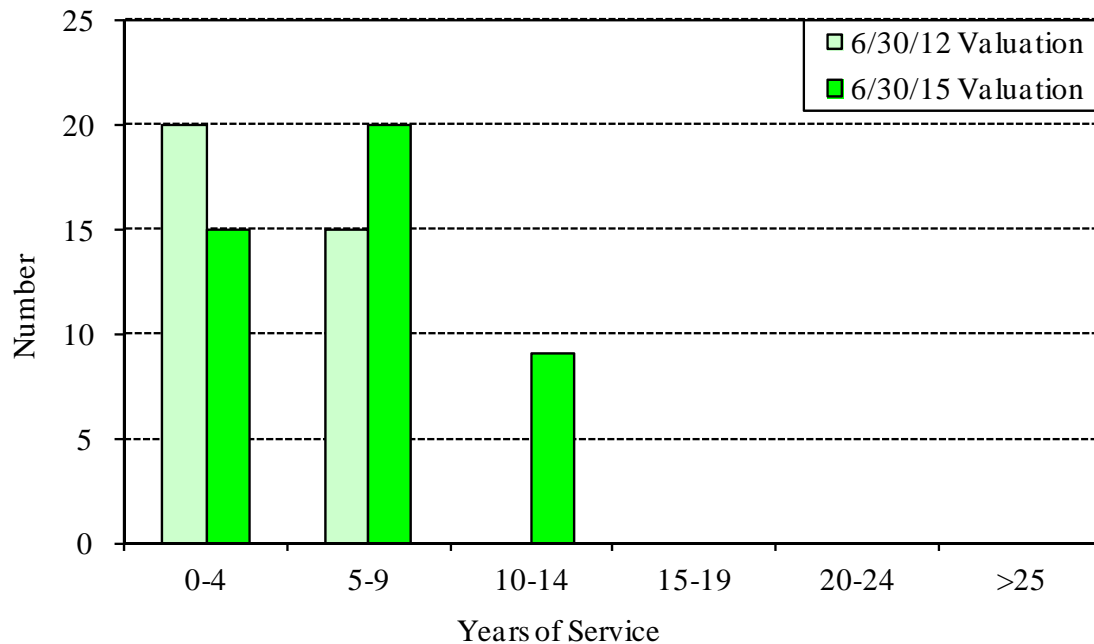
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## PARTICIPANT STATISTICS

### Active Service Distribution



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## PARTICIPANT STATISTICS

### Retiree Healthcare Coverage by Age Group

Age	Single	2-Party	Family	Waived	Total
Under 50					
50-54					
55-59		1			1
60-64				1	1
65-69		1		2	3
70-74					
75-79					
80-85					
85 & Over					
Total	0	2	0	3	5

Average Age	n/a	64.5	n/a	65.6	65.1
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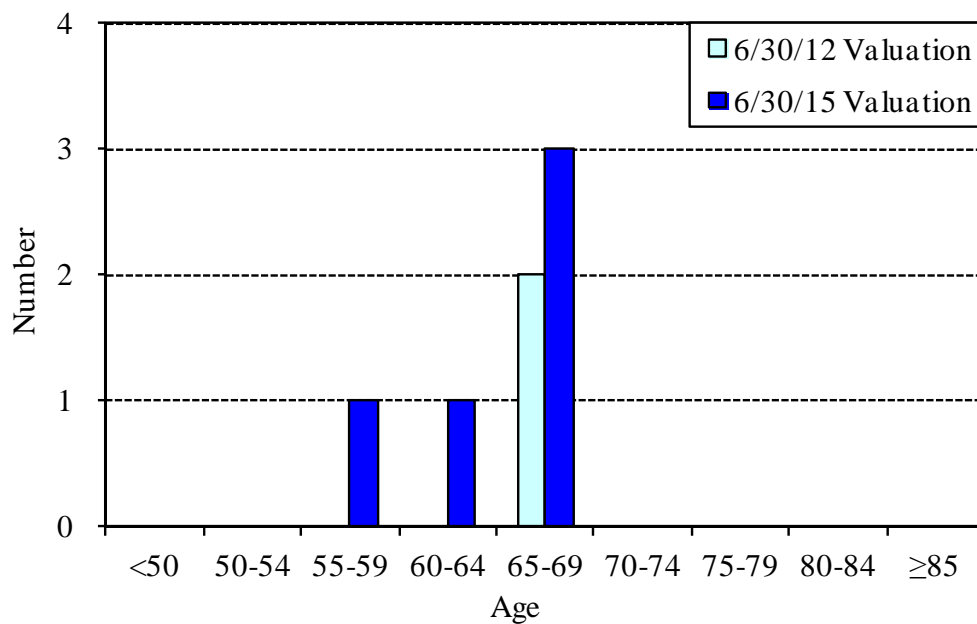
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## PARTICIPANT STATISTICS

### Retiree Age Distribution



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## ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Valuation Date	<ul style="list-style-type: none"> <li>• June 30, 2012</li> <li>• 2012/13, 2013/14 &amp; 2014/15 ARCs</li> <li>• ARC calculated as of beginning of the year with interest to end of year</li> <li>• No lag period</li> </ul>	<ul style="list-style-type: none"> <li>• June 30, 2015</li> <li>• 2015/16 &amp; 2016/17 ARCs</li> <li>• 2017/18 ARC to be determined per GASB 75</li> <li>• ARC calculated as of beginning of the year with interest to end of year</li> <li>• No lag period</li> </ul>
■ Funding Policy	<ul style="list-style-type: none"> <li>• Pay-as-you-go funding</li> </ul>	<ul style="list-style-type: none"> <li>• Same</li> </ul>
■ Discount Rate	<ul style="list-style-type: none"> <li>• 4.25%</li> <li>• Benefit payments currently made from Authority's assets</li> </ul>	<ul style="list-style-type: none"> <li>• 4.00%</li> <li>• Benefit payments currently made from Authority's assets</li> </ul>
■ General Inflation	<ul style="list-style-type: none"> <li>• 3% annually</li> <li>• Basis for aggregate payroll and discount rate assumptions</li> </ul>	<ul style="list-style-type: none"> <li>• Same</li> </ul>



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## ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Aggregate Payroll Increases	<ul style="list-style-type: none"> <li>• 3.25% annually</li> <li>• Inflation plus 0.25%</li> <li>• For Normal Cost calculation and UAAL amortization</li> </ul>	<ul style="list-style-type: none"> <li>• Same</li> </ul>
■ Merit Payroll Increases	<ul style="list-style-type: none"> <li>• CalPERS 1997-2007 Experience Study</li> <li>• Added to aggregate payroll increase assumption for Normal Cost calculation</li> </ul>	<ul style="list-style-type: none"> <li>• CalPERS 1997-2011 Experience Study</li> <li>• Added to aggregate payroll increase assumption for Normal Cost calculation</li> </ul>
■ PEMHCA Minimum Increases	<ul style="list-style-type: none"> <li>• 4.50% after 2013</li> </ul>	<ul style="list-style-type: none"> <li>• 2017 PEMHCA minimum amount of \$128 per month estimated from 2.63% medical care CPI from 2014 to 2015</li> <li>• 4.50% after 2017</li> </ul>



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# **ACTUARIAL ASSUMPTIONS**

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation																											
■ Medical Trend	<ul style="list-style-type: none"> <li>n/a</li> </ul>	<table> <tr> <th>Cal Year</th><th colspan="2">Increase from Prior Year</th></tr> <tr> <th></th><th>Non-Medicare</th><th>Medicare</th></tr> <tr> <td>2015</td><td colspan="2">Premiums</td></tr> <tr> <td>2016</td><td colspan="2">Premiums</td></tr> <tr> <td>2017</td><td>7.0%</td><td>7.2%</td></tr> <tr> <td>2018</td><td>6.5%</td><td>6.7%</td></tr> <tr> <td>2019</td><td>6.0%</td><td>6.1%</td></tr> <tr> <td>2020</td><td>5.5%</td><td>5.6%</td></tr> <tr> <td>2021+</td><td>5.0%</td><td>5.0%</td></tr> </table>	Cal Year	Increase from Prior Year			Non-Medicare	Medicare	2015	Premiums		2016	Premiums		2017	7.0%	7.2%	2018	6.5%	6.7%	2019	6.0%	6.1%	2020	5.5%	5.6%	2021+	5.0%	5.0%
Cal Year	Increase from Prior Year																												
	Non-Medicare	Medicare																											
2015	Premiums																												
2016	Premiums																												
2017	7.0%	7.2%																											
2018	6.5%	6.7%																											
2019	6.0%	6.1%																											
2020	5.5%	5.6%																											
2021+	5.0%	5.0%																											
■ Mortality, Termination, Disability	<ul style="list-style-type: none"> <li>CalPERS 1997-2007 Experience Study</li> <li>Mortality improvement projection Scale AA</li> </ul>	<ul style="list-style-type: none"> <li>CalPERS 1997-2011 Experience Study</li> <li>Mortality Improvement Scale MP-2014 modified to converge to ultimate mortality improvement rates in 2022</li> </ul>																											



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# **ACTUARIAL ASSUMPTIONS**

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation																											
■ Service Retirement	<ul style="list-style-type: none"> <li>CalPERS 1997-2007 Experience Study</li> </ul> <table> <tr> <th>CalPERS</th><th>Misc</th><th>ERA</th></tr> <tr> <td>CalPERS Hire Age</td><td>35</td><td></td></tr> <tr> <td>CalPERS Benefit</td><td>2% @55</td><td>59.4</td></tr> </table>	CalPERS	Misc	ERA	CalPERS Hire Age	35		CalPERS Benefit	2% @55	59.4	<ul style="list-style-type: none"> <li>CalPERS 1997-2011 Experience Study</li> </ul> <table> <tr> <th>CalPERS</th><th>Misc</th><th>ERA</th></tr> <tr> <td>CalPERS Hire Age</td><td>35</td><td></td></tr> <tr> <td>Hired &lt; 1/1/13</td><td>2% @55</td><td>59.8</td></tr> <tr> <td>Hired ≥ 1/1/13</td><td></td><td></td></tr> <tr> <td>➤ Classic Member</td><td>2% @55</td><td>59.8</td></tr> <tr> <td>➤ New Member</td><td>2% @62</td><td>60.9</td></tr> </table>	CalPERS	Misc	ERA	CalPERS Hire Age	35		Hired < 1/1/13	2% @55	59.8	Hired ≥ 1/1/13			➤ Classic Member	2% @55	59.8	➤ New Member	2% @62	60.9
CalPERS	Misc	ERA																											
CalPERS Hire Age	35																												
CalPERS Benefit	2% @55	59.4																											
CalPERS	Misc	ERA																											
CalPERS Hire Age	35																												
Hired < 1/1/13	2% @55	59.8																											
Hired ≥ 1/1/13																													
➤ Classic Member	2% @55	59.8																											
➤ New Member	2% @62	60.9																											
■ Participation at Retirement	<ul style="list-style-type: none"> <li>Actives - 70% participate at retirement</li> <li>Current and future waived retirees under age 65 - 20% participate after age 65</li> <li>Surviving spouse - Same as retiree</li> </ul>	<ul style="list-style-type: none"> <li>Same</li> </ul>																											



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# **ACTUARIAL ASSUMPTIONS**

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Medical Plan at Retirement	• Current plan election	• Same
■ Medical Claims Costs 2016	• Sample estimated monthly claims costs	
	Northern California - Non-Medicare Eligible	
■ CalPERS Service	• Authority hire date for funding entry age	• CalPERS Authority service for entry age



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# **ACTUARIAL ASSUMPTIONS**

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation														
■ PEMHCA Administration Fee	• 0.25% of retiree premium for 2012/13+	<div>• 0.32% of retiree premium for 2015/16</div> <div>• 0.32% of retiree premium for 2016/17 and later years - 5-year average through 2015/16:</div> <table><thead><tr><th><u>Year</u></th><th><u>Admin Fee</u></th></tr></thead><tbody><tr><td>2011/12</td><td>0.36%</td></tr><tr><td>2012/13</td><td>0.25%</td></tr><tr><td>2013/14</td><td>0.33%</td></tr><tr><td>2014/15</td><td>0.34%</td></tr><tr><td>2015/16</td><td><u>0.32%</u></td></tr><tr><td>5-Year Ave</td><td>0.32%</td></tr></tbody></table>	<u>Year</u>	<u>Admin Fee</u>	2011/12	0.36%	2012/13	0.25%	2013/14	0.33%	2014/15	0.34%	2015/16	<u>0.32%</u>	5-Year Ave	0.32%
<u>Year</u>	<u>Admin Fee</u>															
2011/12	0.36%															
2012/13	0.25%															
2013/14	0.33%															
2014/15	0.34%															
2015/16	<u>0.32%</u>															
5-Year Ave	0.32%															
■ PPACA High Cost Plan Excise Tax	• n/a	• Assume excise tax added to premium and cost borne by retiree														



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## ACTUARIAL ASSUMPTIONS

Assumption	June 30, 2012 Valuation	June 30, 2015 Valuation
■ Marital Status at Retirement	<ul style="list-style-type: none"> <li>Actives: <ul style="list-style-type: none"> <li>Covered - based on current coverage election</li> <li>Waived - 80% married</li> </ul> </li> <li>Retirees - based on spouse information if provided</li> </ul>	<ul style="list-style-type: none"> <li>Same</li> </ul>
■ Medicare	<ul style="list-style-type: none"> <li>n/a</li> </ul>	<ul style="list-style-type: none"> <li>100%</li> <li>Everyone eligible for Medicare will elect Part B coverage</li> </ul>
■ Spouse Age	<ul style="list-style-type: none"> <li>Current actives - males 3 years older than females</li> <li>Current retirees - males 3 years older than females if spouse birth date not provided</li> </ul>	<ul style="list-style-type: none"> <li>Same</li> </ul>



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## ACTUARIAL METHODS

Method	June 30, 2015 Valuation
■ Cost Method	<ul style="list-style-type: none"> <li>Entry Age Normal</li> <li>Normal Cost is a level percentage of payroll</li> </ul>
■ Amortization Method	<ul style="list-style-type: none"> <li>Level percent of payroll</li> </ul>
■ Amortization Period for ARC & NOO	<ul style="list-style-type: none"> <li>30-year fixed (closed) period for projected 6/30/09 UAAL for 2009/10 ARC</li> <li>24-year fixed (closed) period for projected 6/30/15 UAAL for 2015/16 ARC</li> <li>Amortization period decreases by one year each fiscal year</li> <li>When amortization period reaches 15 years, experience gains and losses will be amortized over fixed (closed) 15-year periods and plan and assumption changes will be amortized over fixed (closed) 20-year periods</li> </ul>
■ Implied Subsidy	<ul style="list-style-type: none"> <li>Implied subsidy included for non-Medicare eligible retirees</li> </ul>



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## ACTUARIAL METHODS

Method	June 30, 2015 Valuation
<b>■ Future New Entrants</b>	<ul style="list-style-type: none"> <li>• Valuation Results - Closed group, no new hires for first year ARC</li> <li>• Projections and subsequent year ARCs:               <ul style="list-style-type: none"> <li>➢ Simplified open group projection</li> <li>➢ Total active pay increased in accordance with aggregate payroll assumption</li> <li>➢ New hires assumed to have the same Normal Cost percentage as current actives</li> <li>➢ No additional retirees from new hires over the 10-year projection period</li> </ul> </li> </ul>



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## DEFINITIONS

<b>■ GASB 45 Accrual Accounting</b>	<ul style="list-style-type: none"> <li>• Project future employer-provided benefit cash flow for current active employees and current retirees</li> <li>• Discount projected cash flow to valuation date using discount rate and actuarial assumptions to determine present value of benefits (PVB)</li> <li>• Discount rate is expected long-term return on plan assets</li> <li>• Allocate PVB to past, current, and future periods</li> <li>• Normal Cost is portion of PVB allocated to current fiscal year</li> <li>• Actuarial cost method used for valuation is Entry Age Normal Cost method which determines Normal Cost as a level percent of payroll</li> <li>• Actuarial Accrued Liability (AAL) is portion of PVB allocated to prior service with the employer</li> <li>• Unfunded AAL (UAAL) is AAL less Plan Assets</li> <li>• Assets must be in segregated and restricted trust to be considered Plan Assets for GASB 45</li> </ul>
<b>■ PayGo Cost</b>	<ul style="list-style-type: none"> <li>• Cash subsidy is employer pay-as-you-go benefit payments for retirees</li> <li>• Implied subsidy is difference between actual cost of retiree benefits and retiree premiums subsidized by active employee premiums</li> </ul>



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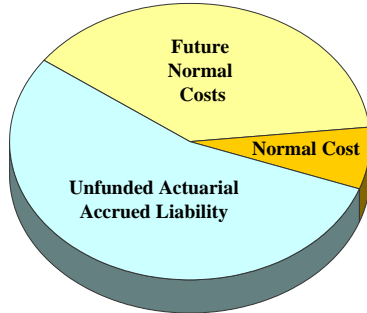
E-21



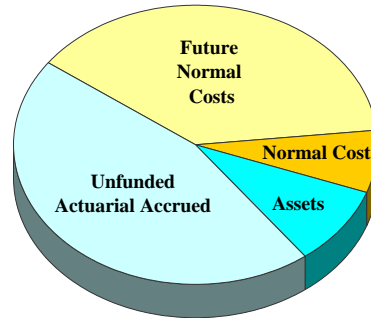
## DEFINITIONS

### Present Value of Benefits

**Present Value of Benefits  
(Without Plan Assets)**



**Present Value of Benefits  
(With Plan Assets)**



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## DEFINITIONS

<p>■ Annual Required Contribution (ARC)</p>	<ul style="list-style-type: none"> <li>● GASB 45 contribution is Normal Cost plus amortization of: <ul style="list-style-type: none"> <li>➢ Initial UAAL and AAL for plan, assumption, and method changes</li> <li>➢ Experience gains and losses (difference between actual experience and that expected from assumptions)</li> <li>➢ Contribution gains and losses (difference between ARC and actual contributions)</li> </ul> </li> </ul>
<p>■ Net OPEB Obligation (NOO)</p>	<ul style="list-style-type: none"> <li>● NOO is accumulated amounts expensed but not funded</li> <li>● Net OPEB Asset if amounts funded exceed those expensed</li> </ul>
<p>■ Annual OPEB Cost (AOC)</p>	<ul style="list-style-type: none"> <li>● Expense for current period including: <ul style="list-style-type: none"> <li>➢ ARC</li> <li>➢ Interest on NOO</li> <li>➢ Adjustment of NOO</li> </ul> </li> <li>● Adjustment of NOO prevents double counting of expense since ARCs include amortization of prior contribution gains and losses previously expensed</li> </ul>



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## DEFINITIONS

### ■ Terminology Used in Report

- AAL - Actuarial Accrued Liability
- AOC - Annual OPEB Cost
- ARC - Annual Required Contribution
- BOY - Beginning of Fiscal Year
- EAN - Entry Age Normal Cost Method
- GASB 45 - Governmental Accounting Standards Board Statement No. 45
- GASB 75 - Governmental Accounting Standards Board Statement No. 75
- NOO - Net OPEB Obligation
- OPEB - Other (than pensions) Post Employment Benefits
- PVB - Present Value of Projected Benefits
- UAAL - Unfunded Actuarial Accrued Liability



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## DEFINITIONS



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**CALIFORNIA EMPLOYERS' RETIREE BENEFIT TRUST PROGRAM ("CERBT")**

**AGREEMENT AND ELECTION  
OF**

---

(NAME OF EMPLOYER)

**TO PREFUND OTHER POST-EMPLOYMENT  
BENEFITS THROUGH CalPERS**

WHEREAS (1) Government Code Section 22940 establishes in the State Treasury the Annuitants' Health Care Coverage Fund for the prefunding of health care coverage for annuitants (Prefunding Plan); and

WHEREAS (2) The California Public Employees' Retirement System (CalPERS) Board of Administration (Board) has sole and exclusive control and power over the administration and investment of the Prefunding Plan (sometimes also referred to as CERBT), the purposes of which include, but are not limited to (i) receiving contributions from participating employers and establishing separate Employer Prefunding Accounts in the Prefunding Plan for the performance of an essential governmental function (ii) investing contributed amounts and income thereon, if any, in order to receive yield on the funds and (iii) disbursing contributed amounts and income thereon, if any, to pay for costs of administration of the Prefunding Plan and to pay for health care costs or other post-employment benefits in accordance with the terms of participating employers' plans; and

WHEREAS (3) \_\_\_\_\_  
(NAME OF EMPLOYER)

(Employer) desires to participate in the Prefunding Plan upon the terms and conditions set by the Board and as set forth herein; and

WHEREAS (4) Employer may participate in the Prefunding Plan upon (i) approval by the Board and (ii) filing a duly adopted and executed Agreement and Election to Prefund Other Post-Employment Benefits (Agreement) as provided in the terms and conditions of the Agreement; and

WHEREAS (5) The Prefunding Plan is a trust fund that is intended to perform an essential governmental function within the meaning of Section 115 of the Internal Revenue Code as an agent multiple-employer defined benefit plan as defined in Governmental Accounting Standards Board (GASB) Statements for Accounting and Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans (OPEB Standards) consisting of an aggregation of single-employer plans, with pooled administrative and investment functions;



NOW, THEREFORE, BE IT RESOLVED THAT EMPLOYER HEREBY MAKES THE FOLLOWING REPRESENTATION AND WARRANTY AND THAT THE BOARD AND EMPLOYER AGREE TO THE FOLLOWING TERMS AND CONDITIONS:

A. Representation and Warranty

Employer represents and warrants that it is a political subdivision of the State of California or an entity whose income is excluded from gross income under Section 115 (1) of the Internal Revenue Code.

B. Adoption and Approval of the Agreement; Effective Date; Amendment

(1) Employer's governing body shall elect to participate in the Prefunding Plan by adopting this Agreement and filing with the CalPERS Board a true and correct original or certified copy of this Agreement as follows:

Filing by mail, send to:        CalPERS  
   CERBT (OPEB)  
   P.O. Box 1494  
   Sacramento, CA 95812-1494

Filing in person, deliver to:        CalPERS Mailroom  
   CERBT (OPEB)  
   400 Q Street  
   Sacramento, CA 95811

(2) Upon receipt of the executed Agreement, and after approval by the Board, the Board shall fix an effective date and shall promptly notify Employer of the effective date of the Agreement.

(3) The terms of this Agreement may be amended only in writing upon the agreement of both CalPERS and Employer, except as otherwise provided herein. Any such amendment or modification to this Agreement shall be adopted and executed in the same manner as required for the Agreement. Upon receipt of the executed amendment or modification, the Board shall fix the effective date of the amendment or modification.

(4) The Board shall institute such procedures and processes as it deems necessary to administer the Prefunding Plan, to carry out the purposes of this Agreement, and to maintain the tax exempt status of the Prefunding Plan. Employer agrees to follow such procedures and processes.

## C. Other Post-Employment Benefits (OPEB) Cost Reports and Employer Contributions

(1) Employer shall provide to the Board an OPEB cost report on the basis of the actuarial assumptions and methods prescribed by the Board. Such report shall be for the Board's use in financial reporting, and shall be prepared at least as often as the minimum frequency required by applicable GASB OPEB Standards. This OPEB cost report may be prepared as an actuarial valuation report or, if the employer is qualified under GASB OPEB Standards, may be prepared as an Alternative Measurement Method (AMM) report.

- (a) Unless qualified under GASB OPEB Standards, to provide an AMM report, Employer shall provide to the Board an actuarial valuation report. Such report shall be for the Board's use in financial reporting, and shall be prepared at least as often as the minimum frequency required by GASB OPEB Standards, and shall be:
  - 1) prepared and signed by a Fellow or Associate of the Society of Actuaries who is also a Member of the American Academy of Actuaries or a person with equivalent qualifications acceptable to the Board;
  - 2) prepared in accordance with generally accepted actuarial practice and GASB OPEB Standards; and,
  - 3) provided to the Board prior to the Board's acceptance of contributions for the valuation period or as otherwise required by the Board.
- (b) If qualified under GASB OPEB Standards, Employer may provide to the Board an AMM report. Such report shall be for the Board's use in financial reporting, shall be prepared at least as often as the minimum frequency required by GASB OPEB Standards, and shall be:
  - 1) affirmed by Employer's external auditor, or by a Fellow or Associate of the Society of Actuaries who is also a Member of the American Academy of Actuaries or a person with equivalent qualifications acceptable to the Board, to be consistent with the AMM process described in GASB OPEB Standards;
  - 2) prepared in accordance with GASB OPEB Standards; and,
  - 3) provided to the Board prior to the Board's acceptance of contributions for the valuation period or as otherwise required by the Board.

(2) The Board may reject any OPEB cost report for financial reporting purposes submitted to it, but shall not unreasonably do so. In the event that the Board

determines, in its sole discretion, that the OPEB cost report is not suitable for use in the Board's financial statements or if Employer fails to provide a required OPEB cost report, the Board may obtain, at Employer's expense, an OPEB cost report that meets the Board's financial reporting needs. The Board may recover from Employer the cost of obtaining such OPEB cost report by billing and collecting from Employer or by deducting the amount from Employer's account in the Prefunding Plan.

(3) Employer shall notify the Board of the amount and time of contributions which contributions shall be made in the manner established by the Board.

(4) Employer contributions to the Prefunding Plan may be limited to the amount necessary to fully fund Employer's actuarial present value of total projected benefits, as supported by the OPEB cost report for financial reporting purposes acceptable to the Board. As used throughout this document, the meaning of the term "actuarial present value of total projected benefits" is as defined in GASB OPEB Standards. If Employer's contribution causes its assets in the Prefunding Plan to exceed the amount required to fully fund the actuarial present value of total projected benefits, the Board may refuse to accept the contribution.

(5) No contributions are required. Contributions can be made at any time following the effective date of the Agreement provided that Employer has first complied with the requirements of Paragraph C.

#### D. Administration of Accounts, Investments, Allocation of Income

(1) The Board has established the Prefunding Plan as an agent plan consisting of an aggregation of single-employer plans, with pooled administrative and investment functions, under the terms of which separate accounts are maintained for each employer so that the Employer's assets will provide benefits only under the Employer's post-employment benefit plan(s).

(2) All Employer contributions and assets attributable to Employer contributions shall be separately accounted for in the Prefunding Plan (Employer's Prefunding Account).

(3) Employer's Prefunding Account assets may be aggregated with prefunding account assets of other employers and may be co-invested by the Board in any asset classes appropriate for a Section 115 Trust.

(4) The Board may deduct the costs of administration of the Prefunding Plan from the investment income or Employer's Prefunding Account in a manner determined by the Board.

(5) Investment income shall be allocated among participating employers and posted to Employer's Prefunding Account as determined by the Board but no less frequently than annually.

(6) If Employer's assets in the Prefunding Plan exceed the amount required to fully fund the actuarial present value of total projected benefits, the Board, in compliance with applicable accounting and legal requirements, may return such excess to Employer.

#### E. Reports and Statements

(1) Employer shall submit with each contribution a contribution report in the form and containing the information prescribed by the Board.

(2) The Board shall prepare and provide a statement of Employer's Prefunding Account at least annually reflecting the balance in Employer's Prefunding Account, contributions made during the period and income allocated during the period, and such other information as the Board determines.

#### F. Disbursements

(1) Employer may receive disbursements not to exceed the annual premium and other costs of post-employment healthcare benefits and other post-employment benefits as defined in GASB OPEB Standards.

(2) Employer shall notify CalPERS in writing in the manner specified by CalPERS of the persons authorized to request disbursements from the Prefunding Plan on behalf of Employer.

(3) Employer's request for disbursement shall be in writing signed by Employer's authorized representative, in accordance with procedures established by the Board. The Board may require that Employer certify or otherwise establish that the monies will be used for the purposes of the Prefunding Plan.

(4) Requests for disbursements that satisfy the requirements of paragraphs (2) and (3) will be processed monthly.

(5) CalPERS shall not be liable for amounts disbursed in error if it has acted upon the written instruction of an individual authorized by Employer to request disbursements. In the event of any other erroneous disbursement, the extent of CalPERS' liability shall be the actual dollar amount of the disbursement, plus interest at the actual earnings rate but not less than zero.

(6) No disbursement shall be made from the Prefunding Plan which exceeds the balance in Employer's Prefunding Account.

#### G. Costs of Administration

Employer shall pay its share of the costs of administration of the Prefunding Plan, as determined by the Board.

#### H. Termination of Employer Participation in Prefunding Plan

(1) The Board may terminate Employer's participation in the Prefunding Plan if:

- (a) Employer gives written notice to the Board of its election to terminate;
- (b) The Board finds that Employer fails to satisfy the terms and conditions of this Agreement or of the Board's rules or regulations.

(2) If Employer's participation in the Prefunding Plan terminates for any of the foregoing reasons, all assets in Employer's Prefunding Account shall remain in the Prefunding Plan, except as otherwise provided below, and shall continue to be invested and accrue income as provided in Paragraph D.

(3) After Employer's participation in the Prefunding Plan terminates, Employer may not make contributions to the Prefunding Plan.

(4) After Employer's participation in the Prefunding Plan terminates, disbursements from Employer's Prefunding Account may continue upon Employer's instruction or otherwise in accordance with the terms of this Agreement.

(5) After the Employer's participation in the Prefunding Plan terminates, the governing body of the Employer may request either:

- (a) A trustee to trustee transfer of the assets in Employer's Prefunding Account; provided that the Board shall have no obligation to make such transfer unless the Board determines that the transfer will satisfy applicable requirements of the Internal Revenue Code, other law and accounting standards, and the Board's fiduciary duties. If the Board determines that the transfer will satisfy these requirements, the Board shall then have one hundred fifty (150) days from the date of such determination to effect the transfer. The amount to be transferred shall be the amount in the Employer's Prefunding Account as of the date of the transfer (the "transfer date") and shall include investment earnings up to an investment earnings allocation date preceding the transfer date. In no event shall the investment earnings allocation date precede the transfer date by more than 150 days.
- (b) A disbursement of the assets in Employer's Prefunding Account; provided that the Board shall have no obligation to make such disbursement unless the Board determines that, in compliance with the Internal Revenue Code, other law and accounting standards, and the Board's fiduciary duties, all of Employer's obligations for payment of post-employment health care benefits and other post-employment benefits and reasonable administrative costs of the Board have been satisfied. If the Board determines that the disbursement will satisfy these requirements, the

Board shall then have one hundred fifty (150) days from the date of such determination to effect the disbursement. The amount to be disbursed shall be the amount in the Employer's Prefunding Account as of the date of the disbursement (the "disbursement date") and shall include investment earnings up to an investment earnings allocation date preceding the disbursement date. In no event shall the investment earnings allocation date precede the disbursement date by more than 150 days.

(6) After Employer's participation in the Prefunding Plan terminates and at such time that no assets remain in Employer's Prefunding Account, this Agreement shall terminate.

(7) If, for any reason, the Board terminates the Prefunding Plan, the assets in Employer's Prefunding Account shall be paid to Employer after retention of (i) amounts sufficient to pay post-employment health care benefits and other post-employment benefits to annuitants for current and future annuitants described by the employer's current substantive plan (as that term is used in GASB OPEB Standards), and (ii) amounts sufficient to pay reasonable administrative costs of the Board.

(8) If Employer ceases to exist but Employer's Prefunding Plan continues to exist and if no provision has been made by Employer for ongoing payments to pay post-employment health care benefits and other post-employment benefits to annuitants for current and future annuitants, the Board is authorized to and shall appoint a third party administrator to carry out Employer's Prefunding Plan. Any and all costs associated with such appointment shall be paid from the assets attributable to contributions by Employer.

(9) If Employer should breach the representation and warranty set forth in Paragraph A., the Board shall take whatever action it deems necessary to preserve the tax-exempt status of the Prefunding Plan.

## I. General Provisions

### (1) Books and Records.

Employer shall keep accurate books and records connected with the performance of this Agreement. Employer shall ensure that books and records of subcontractors, suppliers, and other providers shall also be accurately maintained. Such books and records shall be kept in a secure location at the Employer's office(s) and shall be available for inspection and copying by CalPERS and its representatives.

### (2) Audit.

- (a) During and for three years after the term of this Agreement, Employer shall permit the Bureau of State Audits, CalPERS, and its authorized

representatives, and such consultants and specialists as needed, at all reasonable times during normal business hours to inspect and copy, at the expense of CalPERS, books and records of Employer relating to its performance of this Agreement.

- (b) Employer shall be subject to examination and audit by the Bureau of State Audits, CalPERS, and its authorized representatives, and such consultants and specialists as needed, during the term of this Agreement and for three years after final payment under this Agreement. Any examination or audit shall be confined to those matters connected with the performance of this Agreement, including, but not limited to, the costs of administering this Agreement. Employer shall cooperate fully with the Bureau of State Audits, CalPERS, and its authorized representatives, and such consultants and specialists as needed, in connection with any examination or audit. All adjustments, payments, and/or reimbursements determined to be necessary by any examination or audit shall be made promptly by the appropriate party.

(3) Notice.

- (a) Any notice, approval, or other communication required or permitted under this Agreement will be given in the English language and will be deemed received as follows:
  - 1. Personal delivery. When personally delivered to the recipient. Notice is effective on delivery.
  - 2. First Class Mail. When mailed first class to the last address of the recipient known to the party giving notice. Notice is effective three delivery days after deposit in a United States Postal Service office or mailbox.
  - 3. Certified mail. When mailed certified mail, return receipt requested. Notice is effective on receipt, if delivery is confirmed by a return receipt.
  - 4. Overnight Delivery. When delivered by an overnight delivery service, charges prepaid or charged to the sender's account, Notice is effective on delivery, if delivery is confirmed by the delivery service.
  - 5. Telex or Facsimile Transmission. When sent by telex or fax to the last telex or fax number of the recipient known to the party giving notice. Notice is effective on receipt, provided that (i) a duplicate copy of the notice is promptly given by first-class or certified mail or by overnight delivery, or (ii) the receiving party delivers a written

confirmation of receipt. Any notice given by telex or fax shall be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a nonbusiness day.

6. E-mail transmission. When sent by e-mail using software that provides unmodifiable proof (i) that the message was sent, (ii) that the message was delivered to the recipient's information processing system, and (iii) of the time and date the message was delivered to the recipient along with a verifiable electronic record of the exact content of the message sent.

Addresses for the purpose of giving notice are as shown in Paragraph B.(1) of this Agreement.

- (b) Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified shall be deemed effective as of the first date that said notice was refused, unclaimed, or deemed undeliverable by the postal authorities, messenger or overnight delivery service.
- (c) Any party may change its address, telex, fax number, or e-mail address by giving the other party notice of the change in any manner permitted by this Agreement.
- (d) All notices, requests, demands, amendments, modifications or other communications under this Agreement shall be in writing. Notice shall be sufficient for all such purposes if personally delivered, sent by first class, registered or certified mail, return receipt requested, delivery by courier with receipt of delivery, facsimile transmission with written confirmation of receipt by recipient, or e-mail delivery with verifiable and unmodifiable proof of content and time and date of sending by sender and delivery to recipient. Notice is effective on confirmed receipt by recipient or 3 business days after sending, whichever is sooner.

#### (4) Survival

All representations, warranties, and covenants contained in this Agreement, or in any instrument, certificate, exhibit, or other writing intended by the parties to be a part of their Agreement shall survive the termination of this Agreement until such time as all amounts in Employer's Prefunding Account have been disbursed.

#### (5) Waiver

No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of this Agreement shall be effective unless it is in writing and



signed by the party waiving the breach, failure, right, or remedy. No waiver of any breach, failure, right, or remedy shall be deemed a waiver of any other breach, failure, right, or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

(6) Necessary Acts, Further Assurances

The parties shall at their own cost and expense execute and deliver such further documents and instruments and shall take such other actions as may be reasonably required or appropriate to evidence or carry out the intent and purposes of this Agreement.

A majority vote of Employer's Governing Body at a public meeting held on the \_\_\_\_\_ day of the month of \_\_\_\_\_ in the year \_\_\_\_\_, authorized entering into this Agreement.

Signature of the Presiding Officer: \_\_\_\_\_

Printed Name of the Presiding Officer: \_\_\_\_\_

Name of Governing Body: \_\_\_\_\_

Name of Employer: \_\_\_\_\_

Date: \_\_\_\_\_

BOARD OF ADMINISTRATION  
CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

BY \_\_\_\_\_  
JOHN SWEDENSKY  
CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

To be completed by CalPERS

The effective date of this Agreement is: \_\_\_\_\_



## DELEGATION OF AUTHORITY TO REQUEST DISBURSEMENTS

### RESOLUTION OF THE

Board of Directors  
(GOVERNING BODY)

### OF THE

Salinas Valley Solid Waste Authority  
(NAME OF EMPLOYER)

The Board of Directors  
(GOVERNING BODY) delegates to the incumbents

in the positions of General Manager/Chief Administration Officer  
(TITLE) and

Finance Manager/Treasurer/Controller  
(TITLE) and/or

authority to request on  
(TITLE)


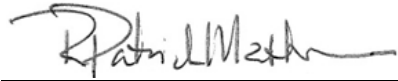
behalf of the Employer disbursements from the Other Post Employment Prefunding  
Plan and to certify as to the purpose for which the disbursed funds will be used.

By \_\_\_\_\_

Title \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

 <p>Report to the Board of Directors</p>	<p>ITEM NO. 6</p>
<p>Date: June 15, 2017</p> <p>From: Patrick Mathews, General Manager/CAO</p> <p>Title: Progress Report on Alternative Energy Projects Development</p>	<p>N/A</p> <p>Finance Manager/Controller-Treasurer</p> <p></p> <p>General Manager/CAO</p> <p><i>T. Bruen by pm</i></p> <p>General Counsel</p>

## RECOMMENDATION

Staff recommends that the Board accept this update report.

## STRATEGIC PLAN RELATIONSHIP

The recommended action helps support the 2016-2019 Strategic Plan Goal to “Reduce Dependence on Landfill Disposal Fees Through Self-Funded Programs and New Revenue Sources”. The Board specifically has requested an update on the development of alternative energy projects on SVR sites.

## FISCAL IMPACT

Staff continues to evaluate various projects under consideration at the Crazy Horse (closed), Jolon Road (closed) and Johnson Canyon Landfills that have the potential to create new stable revenue sources that would further reduce our dependence on declining landfill tipping fees. As an example, expansion of the Johnson Canyon Landfill Gas (LFG) Power Project with Ameresco could generated an additional \$150-\$200,000 per year in gas sales revenues, while leasing land at the site to a potential wind turbine generator could generate \$40-60,000 per year in long-term lease revenues.

## DISCUSSION & ANALYSIS

With the start-up of the Monterey Bay Community Power Agency (MBCP) last month, a new market for renewable energy is developing in the region that would allow the benefits of any new project to remain local and provide for local jobs. Recent legislative changes this year will also allow SVR to work directly with any member agency that may have a need or appetite to use more renewable energy for their own internal uses. We now have the ability to develop projects at any site and execute delivery agreements with one or more of our member agencies to support their greenhouse gas reduction plans and renewable energy demands.

Additional studies may be initiated this coming fiscal year to prioritize projects below based on viability, demand and/or environmental concerns (such as condor habitat limits for wind farms).

### Project Idea under Consideration:

#### Johnson Canyon Landfill:

1. Expansion of the Ameresco landfill gas to energy plant
2. Siting of the private venture Clean Fiber and Organics Recovery System (CFORS) that includes a comprehensive anaerobic digestion system for water reclamation

and renewable energy production from recovered organics, with potential for SVR revenue sharing

3. Lease of land for installation of wind generation equipment by private parties (tbd)
4. Small scale solar installation to meet facility self-generation demands

Crazy Horse Landfill:

1. Reuse of limited term landfill gas production for 15-25 years such as compressed natural gas production for refuse collection vehicles
2. Large scale commercial solar facility for electricity sales to the MBCP, direct sale to member agencies, or other interested parties. This project is near shovel-ready and awaiting initial electricity contract procurement process to start with MBCP. This is staff's highest priority renewable energy project at this time.

Jolon Road Landfill:

1. Large scale commercial solar facility for electricity sales to the MBCP, direct sale to member agencies, or other interested parties.
2. Lease of land for installation of wind generation equipment by private parties (tbd)

BACKGROUND

Landfills generate methane gas (Landfill Gas, "LFG") as a result of waste decomposition. Under California law, this gas must be collected and treated to reduce greenhouse gas release into the atmosphere. In California, LFG is considered a renewal biogas resource and is subject to the various credits and benefits that go along with use of this fuel to produce electricity or other alternative fuels.

Closed landfills offer a unique opportunity for use as platforms for solar arrays or wind farms. Not only do you find a beneficial use for what is otherwise a degraded piece of land, but there is an equal reduction in the loss of other more valuable lands needed to support the growing solar and wind industry demands.

ATTACHMENT(S)

1. None



## Report to the Board of Directors

ITEM NO. 7

N/A

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

Legal Counsel

Date: June 15, 2017

From: Brian Kennedy, Engineering and Environmental Compliance Manager

Title: A Resolution Approving A Three Year Professional Services Agreement with Geo-Logic Associates to Provide Groundwater Monitoring Services in an Amount Not to Exceed \$284,166

### RECOMMENDATION

Staff recommends that the Board adopt the resolution approving a professional services agreement with Geo-Logic Associates for a period of three years with a not to exceed amount of \$284,166 for routine groundwater monitoring and reporting services. The agreement will also have two optional two-year extensions.

### STRATEGIC PLAN RELATIONSHIP

The agreement is not related to any strategic plan goals, but is required as part of each of our landfills permitted groundwater monitoring provisions.

### FISCAL IMPACT

The proposed contract cost is \$284,166 for routine groundwater monitoring and reporting services through the end of fiscal year 2019/20. Funding for the first year of this agreement is included in the approved FY 2017-18 budget, along with a modest amount to cover anticipated non-routine projects.

### DISCUSSION & ANALYSIS

On April 7, 2017, staff released a Request for Proposals (RFP) for vendors interested in providing groundwater monitoring and reporting services to the Authority. In addition to regular monitoring, the contract may also include non-routine maintenance task and projects. Regulatory required special studies, such as evaluation monitoring programs, are not exclusive to the selected firm, but are anticipated to be included as the responsibility of the selected firm. On May 5, the Authority received three proposals, submitted by SOMA Environmental Engineering, SCS Engineers, and Geo-Logic Associates.

After thorough review, Geo-Logic Associates was selected as the proposed vendor to provide these services, due to their familiarity with our sites and reporting requirements. They have also been the incumbent for the past 12 years and have provided excellent, consistent service. Geo-Logic Associates is a very experienced and qualified firm. They are well versed to perform these services, and are held in high regard by State regulators.

## BACKGROUND

The Authority is required to monitor the quality of the groundwater beneath its four landfills as part of our Waste Discharge Requirements. Reporting on the findings of this monitoring is provided to the Regional Water Quality Control Board on an established, periodic basis. These services are currently being provided by Geo-Logic Associates and have been since 2005.

## ATTACHMENT(S)

1. Resolutions
2. Professional Service Agreement

RESOLUTION NO. 2017-

A RESOLUTION OF THE SALINAS VALLEY SOLID WASTE AUTHORITY  
APPROVING A THREE-YEAR SERVICE WITH GEO-LOGIC ASSOCIATES TO  
PROVIDE GROUNDWATER MONITORING AND REPORTING IN AN AMOUNT  
NOT TO EXCEED \$284,166

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE  
SALINAS VALLEY SOLID WASTE AUTHORITY that the Chief Administration Officer is  
hereby authorized and directed for and on behalf of the Salinas Valley Solid Waste  
Authority to enter into an agreement with Geo-Logic Associates for groundwater  
monitoring and reporting in an amount not to exceed \$284,166, as attached  
hereto and marked "Exhibit A".

PASSED AND ADOPTED by the Board of Directors of the Salinas Valley Solid  
Waste Authority this 15<sup>th</sup> day of June, 2017 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

---

Simón Salinas, President

ATTEST:

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Erika J. Trujillo, Clerk of the Board



AGREEMENT FOR PROFESSIONAL SERVICES BETWEEN  
SALINAS VALLEY SOLID WASTE AUTHORITY AND  
GEO-LOGIC ASSOCIATES

TO PROVIDE GROUNDWATER MONITORING AND REPORTING SERVICES

This agreement, made and entered into this 1st day of July, 2017, by and between the Salinas Valley Solid Waste Authority, a joint powers authority organized under the laws of the State of California (hereinafter "Authority"), and Geo-Logic Associates. (hereinafter "Consultant").

WHEREAS, Consultant represents that it is specially trained, experienced, and competent to perform the special services which will be required by this agreement; and

WHEREAS, Consultant is willing to render such professional services, as hereinafter defined, on the following terms and conditions,

NOW, THEREFORE, Consultant and Authority agree as follows:

**1. Scope of Service**

The project contemplated and the Consultant's services are described in Attachment "A," attached hereto and incorporated herein by reference.

**2. Completion Schedule**

Consultant shall complete the consulting services described in Attachment "A" by June 30, 2020 with an option for an additional two (2) additional two (2) year terms at the sole discretion of the Authority.

**3. Compensation**

Authority hereby agrees to pay Consultant for services rendered to Authority pursuant to this agreement in an amount not to exceed the amount indicated in the payment schedule in, and in the manner indicated and in accordance with, Attachment "B."

All wage scales shall be in accordance with applicable determinations made by the Director of the Department of Industrial Relations of the State of California, as provided by Article 2, Chapter 1, Division 2, Part 7 of the Labor Code of the State of California, commencing with Section 1771. In accordance with Section 1773.2 of said Labor Code, copies of the aforesaid determinations of the Director of the Department of Industrial Relations are to be on file at the Consultant's principal office. It shall be mandatory for any Contractor or Consultant to whom a contract is awarded to pay not less than the applicable prevailing wage rate to all workers employed for the execution of the Contract.

**4. Billing**

Consultant shall submit to Authority an itemized invoice, prepared in a form satisfactory to Authority, describing its services and costs for the period covered by the invoice. Except as specifically



authorized by Authority, Consultant shall not bill Authority for duplicate services performed by more than one person. Consultant's bills shall include the following information to which such services or costs pertain:

- A. Brief description of services performed;
- B. The date the services were performed;
- C. The number of hours spent and by whom;
- D. A brief description of any costs incurred;
- E. The Consultant's signature; and
- F. Reference to Authority's Purchase Order Number

In no event shall Consultant submit any billing for an amount in excess of the maximum amount of compensation provided in Section 3, unless authorized pursuant to Section 5 herein.

All such invoices shall be in full accord with any and all applicable provisions of this agreement.

Authority shall make payment for all undisputed portions on each such invoice within forty-five (45) days of receipt, provided, however, that if Consultant submits an invoice which is incorrect, incomplete, or not in accord with the provisions of this agreement, Authority shall not be obligated to process any payment for disputed portions of invoice to Consultant until forty-five (45) days after a correct and complying invoice has been submitted by Consultant.

## **5. Additional Services**

It is understood by Authority and Consultant that it may be necessary, in connection with the project, for Consultant to perform or secure the performance of consulting and related services other than those set forth in Attachment "A." Authority has listed those additional consulting services that could be anticipated at the time of the execution of the agreement as shown in Attachment "A." If said additional services are requested by the Authority, Consultant shall advise Authority in writing of the need for additional services, and the cost of and estimated time to perform the services. Consultant shall not proceed to perform any such additional service until Authority has determined that such service is beyond the scope of the basic services to be provided by the Consultant, is required, and has given its written authorization to perform. Written approval for performance and compensation for additional services may be granted by the Authority's Chief Administrative Officer.

Except as hereinabove stated, any additional service not shown on Attachment "A" shall require an amendment to this agreement and shall be subject to all of the provisions of this agreement.

## **6. Additional Copies**

If Authority requires additional copies of reports, or any other material which Consultant is required to furnish in limited quantities as part of the services under this agreement, Consultant shall provide such additional copies as are requested, and Authority shall compensate Consultant for the actual costs of duplicating such copies.

## **7. Responsibility of Consultant**

- A. By executing this agreement, Consultant agrees that Consultant is apprised of the scope of work to be performed under this agreement and Consultant agrees that said work can and shall be

performed in a competent manner. By executing this agreement, Consultant further agrees that the Consultant possesses, or shall arrange to secure from others, all of the necessary professional capabilities, experience, resources, and facilities necessary to provide the Authority the services contemplated under this agreement and that Authority relies upon the professional skills of Consultant to do and perform Consultant's work. Consultant further agrees that Consultant shall follow the current, generally accepted professional standard of care to make findings, render opinions, prepare factual presentations, and provide professional advice and recommendations regarding the project for which the services are rendered under this agreement. Consultant shall have the right to reasonably rely on all information provided by Authority without independent verification.

- B. Consultant shall assign a single project director to have overall responsibility for the execution of this agreement for Consultant. John Hower is hereby designated as the project director for Consultant. Any changes in the Project Director designee shall be subject to the prior written acceptance and approval of the Authority's General Manager or designated representative.
- C. Recent changes in State law expand the definitions of work, including testing and survey work, for which prevailing wages may need to be paid on construction projects paid for with public funds. It is the Consultant's responsibility to inform itself of, and to comply at its sole expense with, all State law requirements governing the payment of prevailing wages.

## **8. Responsibility of Authority**

To the extent appropriate to the project contemplated by this agreement, Authority shall:

- A. Assist Consultant by placing at his disposal all available information pertinent to the project, including but not limited to, previous reports, and any other data relative to the project. Nothing contained herein shall obligate Authority to incur any expense in connection with completion of studies or acquisition of information not otherwise in the possession of Authority.
- B. Make provisions for Consultant to enter upon public and private property as required by Consultant to perform his services.
- C. Examine all studies, reports, sketches, drawings, specifications, proposals, and other documents presented by Consultant, and render verbally or in writing as may be appropriate, decisions pertaining thereto within a reasonable time so as not to delay the services of Consultant.
- D. The Chief Administrative Officer or authorized designee shall act as Authority's representative with respect to the work to be performed under this agreement. Such person shall have the complete authority to transmit instructions, receive information, interpret, and define Authority's policies and decisions with respect to the materials, equipment, elements, and systems pertinent to Consultant's services. Authority may unilaterally change its representative upon notice to the Consultant.
- E. Give prompt written notice to Consultant whenever Authority observes or otherwise becomes aware of any defect in the project.
- F. Furnish approvals and permits from all governmental authorities having jurisdiction over the project and such approvals and consents from others as may be necessary for completion of the project.

## **9. Acceptance of Work Not a Release**

Acceptance by the Authority of the work performed under this agreement does not operate as a release of Consultant from professional responsibility for the work performed.

#### **10. Indemnification and Hold Harmless**

Contractor shall indemnify and hold harmless and defend Authority, its directors, officers, employees, or authorized volunteers, and each of them from and against:

- A. Any and all claims, demands, causes of action, damages, costs, expenses, losses or liabilities, in law or in equity, of every kind and nature whatsoever for, but not limited to, injury to or death of any person including the Authority and/or Contractor, or any directors, officers, employees, or authorized volunteers of the Authority or Contractor, and damages to or destruction of property of any person, including but not limited to, the Authority and/or Contractor or their directors, officers, employees, or authorized volunteers, arising out of or in any manner directly or indirectly connected with the work to be performed under this agreement, to the extent caused by the negligence, recklessness and willful misconduct of the Consultant, its employees or subcontractors, and except the negligence or willful misconduct or active negligence of the Authority or its directors, officers, employees, or authorized volunteers;.
- B. Any and all actions, proceedings, damages, costs, expenses, penalties or liabilities, in law or equity, of every kind or nature whatsoever, arising out of, resulting from, or on account of the violation of any governmental law or regulation, compliance with which is the responsibility of Contractor;
- C. Any and all losses, expenses, damages (including damages to the work itself), reimbursement of reasonable attorneys' fees, and other costs, which any of them may incur to the extent caused by the negligent failure of Contractor to faithfully perform the work and all of the Contractor's obligations under the Contract.

With regard to any claim alleging Contractor's negligent performance of professional services, Contractor's defense obligation under this indemnity paragraph means only the reimbursement of reasonable defense costs to the proportionate extent of its actual indemnity obligation hereunder.

Contractor shall pay and satisfy any judgment, award, or decree that may be rendered against the Authority or its directors, officers, employees, or authorized volunteers, in any such suit, action or other legal proceeding that relates to indemnified acts to the extent of Contractor's responsibility therefor, and to the extent they are not covered by Contractor's insurance.

#### **11. Insurance**

- A. Consultant shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees.
- B. Coverage shall be at least as broad as:
  - 1. Commercial General Liability (CGL): Insurance Services Office Form CG 00 01 or equivalent form covering CGL on an "occurrence" basis for bodily injury and property damage, including products-completed operations, personal injury and advertising injury, with limits no less than \$1,000,000 per occurrence and \$2,000,000 aggregate.
  - 2. Automobile Liability: Insurance Services Office Form Number CA 0001 or equivalent form covering, Code 1 (any auto), or if Consultant has no owned autos, Code 8 (hired) and 9 (non-owned), with limit no less than \$1,000,000 per accident for bodily injury and

property damage.

3. Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
4. Professional Liability (Errors and Omissions) Insurance appropriate to the Consultant's profession, with limit no less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate per project site.

#### C. Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions:

##### Additional Insured Status

The Authority, its officers, officials, employees, and volunteers are to be covered as additional insureds on the auto policy with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Consultant; and on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Consultant's insurance (at least as broad as ISO Form CG 20 10, 11 85 or both CG 20 10 and CG 23 37 forms if later revisions used).

##### Primary Coverage

For any claims related to this contract, the Consultant's insurance coverage (except professional liability) shall be primary insurance as respects the Authority, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Authority, its officers, officials, employees, or volunteers shall be excess of the Consultant's insurance and shall not contribute with it. Any available insurance proceeds in excess of the specified minimum limits and coverage shall be available to the Authority and its indemnified parties. All policies referenced herein shall include primary and non-contributory coverage in favor of SVSWA, either within the policy form or via endorsement."

##### Notice of Cancellation

Each insurance policy required above shall state that coverage shall not be canceled, except with notice to the Authority. All insurance companies affording coverage shall issue an endorsement to their policy, committing them to provide thirty (30) days written notice by mail to the Salinas Valley Solid Waste Authority should the policy be canceled before the expiration date, or ten (10) days for cancellation for non-payment of premium. .

##### Waiver of Subrogation

Consultant hereby grants to Authority a waiver of any right to subrogation which any insurer of said Consultant (except the professional liability insurer) may acquire against the Authority by virtue of the payment of any loss under such insurance. Consultant agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation, but this provision applies regardless of whether or not the Authority has received a waiver of subrogation endorsement from the insurer.

##### Deductibles and Self-Insured Retentions

Consultant shall be solely responsible for any and all deductibles and self-insured retentions.

##### Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-:VI, unless otherwise acceptable to the Authority.



### Claims Made Policies

If any of the required policies provide coverage on a claims-made basis:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

### Verification of Coverage

Consultant shall furnish the Authority with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by the Entity before work commences.

However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. A statement on the insurance certificate which states that the insurance company will endeavor to notify the certificate holder, "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents, or representatives" does not satisfy the requirements of herein. The Consultant shall ensure that the above-quoted language is stricken from the certificate by the authorized representative of the insurance company. The insurance certificate shall also state the limits of coverage required hereunder.

Consultant shall provide substitute certificate of insurance no later than ten (10) days after to the policy expiration date. Failure by the Consultant to provide such a substitution and extend the policy expiration date shall be considered default by Consultant.

### Subcontractors

Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein.

Maintenance of insurance by the Consultant as specified in the agreement shall in no way be interpreted as relieving the Consultant of any responsibility whatever and the Consultant may carry, at its own expense, such additional insurance as it deems necessary.

The insurer (except the professional liability carrier) shall waive all rights of subrogation against the Authority, its directors, officers, employees, or authorized volunteers.

## **12. Access to Records**

Consultant shall maintain all preparatory books, records, documents, accounting ledgers, and similar materials including but not limited to calculation and survey notes relating to work performed for Authority under this agreement on file for at least three (3) years following the date of final payment to Consultant by Authority. Any duly authorized representative(s) of Authority shall have access to such records for the purpose of inspection, audit, and copying at reasonable times during Consultant's usual and customary business hours. Consultant shall provide proper facilities to Authority's representative(s) for such access and inspection.

## **13. Assignment**

It is recognized by the parties hereto that a substantial inducement to Authority for entering into this agreement was, and is, the professional reputation and competence of Consultant. This agreement is

personal to Consultant and shall not be assigned by it without the prior express written approval of Authority. If the Consultant is a corporation or other business entity, a change of control (meaning a transfer of more than 20% of the voting stock or equity interest in the entity) shall constitute an assignment requiring the Authority's prior consent.

Authority may assign this agreement, and its assignee shall have all of the rights, and be subject to all of the obligations, of Authority hereunder, and whenever an officer of Authority is referred to in this agreement, then the representative of the assignor exercising similar duties shall be deemed to be the person referred to.

#### **14. Changes to Scope of Work**

Authority may at any time and, upon a minimum of ten (10) days written notice, seek to modify the scope of basic services to be provided under this agreement. Consultant shall, upon receipt of said notice, determine the impact on both time and compensation of such change in scope and notify Authority in writing. The rate of compensation shall be based upon the hourly rates shown in Attachment "A" of this agreement. Upon agreement between Authority and Consultant as to the extent of said impacts to time and compensation, an amendment to this agreement shall be prepared describing such changes.

Execution of the amendment by Authority and Consultant shall constitute the Consultant's notice to proceed with the changed scope.

#### **15. Compliance with Laws, Rules, and Regulations**

Services performed by Consultant pursuant to this agreement shall be performed in accordance and full compliance with all applicable federal, state, and local laws and any rules or regulations promulgated thereunder.

#### **16. Licenses**

If a license of any kind, which term is intended to include evidence of registration, is required of Consultant, its employees, agents, or subcontractors by federal or state law, Consultant warrants that such license has been obtained, is valid and in good standing, and that any applicable bond has been posted in accordance with all applicable laws and regulations.

#### **17. Fiscal Considerations**

The parties to this Agreement recognize and acknowledge that Authority is a political subdivision of the entities which it represents. As such, Authority is subject to the provisions of Article XVI, Section 18 of the California Constitution and other similar fiscal and procurement laws and regulations and may not expend funds for products, equipment or services not budgeted in a given fiscal year. It is further understood that in the normal course of Authority business, Authority will adopt a proposed budget for a given fiscal year.

In addition to the above, should the Authority during the course of a given year for financial reasons reduce, or order a reduction, in the budget for which services were agreed to be performed, pursuant to this paragraph in the sole discretion of the Authority, this Agreement may be deemed to be canceled in its entirety subject to payment for services performed prior to cancellation.

#### **18. Interest of Public Official**

No official or employee of Authority who exercises any functions or responsibilities in review or approval of services to be provided by Consultant under this Agreement shall participate in or attempt to influence any decision relating to this Agreement which affects personal interest or interest of any

corporation, partnership, or association in which he/she is directly or indirectly interested; nor shall any such official or employee of Authority have any interest, direct or indirect, in this Agreement or the proceeds thereof.

**19. Withholding (Form 730)**

In accordance with changes in Internal Revenue Law, OASDI (Old Age, Survivors, & Disability Insurance) and income taxes may be withheld from any payments made to Consultant under the terms of this Agreement if Consultant is determined by the Authority not to be an independent contractor.

**20. California Residency (Form 590)**

All independent Consultants providing services to the Authority must file a State of California Form 590, certifying their California residency or, in the case of a corporation, certifying that they have a permanent place of business in California. The Consultant will be required to submit a Form 590 prior to execution of this agreement or Authority shall withhold seven (7) percent of each payment made to the Consultant during the term of this agreement. This requirement applies to any agreement/contract exceeding \$600.00.

**21. Tax Payer Identification Number (Form W-9)**

All independent Consultants or Corporations providing services to the Authority must file a Department of the Treasury Internal Revenue Service Form W-9, certifying their Taxpayer Identification Number.

**22. Independent Contractor**

It is expressly understood and agreed by both parties that Consultant, while engaged in carrying out and complying with any of the terms and conditions of this agreement, is an independent contractor and not an employee of the Authority. Consultant expressly warrants not to represent, at any time or in any manner, that Consultant is an employee, agent, or servant of the Authority.

**23. Attachments Incorporated**

All attachments referred to in this agreement and attached to it are hereby incorporated in it by this reference. In the event there is a conflict between any of the terms of the agreement and any of the terms of any attachment to the agreement, the terms of the agreement shall control the respective duties and liabilities of the parties.

**24. Integration and Amendment**

This agreement represents the entire understanding of Authority and Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or affect with respect to those matters contained herein. No prior oral or written understanding shall be of any force or affect with respect to those matters covered in it. This agreement may not be modified or altered except by amendment in writing signed by both parties.

**25. Jurisdiction**

This agreement shall be administered and interpreted under the laws of the State of California. Jurisdiction of litigation arising from this agreement shall be in the State of California in the County of Monterey.



## **26. Severability**

If any part of this agreement is found to be in conflict with applicable laws, such part shall be inoperative, null and void in so far as it is in conflict with said laws, but the remainder of the agreement shall continue to be in full force and effect.

## **27. Notice to Proceed; Progress; Completion**

Upon execution of this agreement by both parties, Authority shall give Consultant written notice to proceed with this work. Such notice may authorize Consultant to render all of the services contemplated herein, or such portions or phases as may be mutually agreed upon. In the latter event, Authority shall, in its sole discretion, issue subsequent notices from time to time regarding further portions or phases of the work. Upon receipt of such notices, Consultant shall diligently proceed with the work authorized and complete it within the agreed time period specified in said notice.

## **28. Ownership of Documents**

Title to all documents, drawings, specifications, data, reports, summaries, correspondence, photographs, computer software, video and audio tapes, and any other materials with respect to work performed under this agreement shall vest with Authority at such time as Authority has compensated Consultant, as provided herein, for the services rendered by Consultant in connection with which they were prepared. Authority agrees to hold harmless and indemnify the Consultant against all damages, claims, lawsuits, and losses of any kind including defense costs arising out of any use of said documents, drawings, and/or specifications on any other project without written authorization of the Consultant.

## **29. Subcontractors**

Consultant shall be entitled, to the extent determined appropriate by Consultant, to subcontract any portion of the work to be performed under this agreement. Consultant shall be responsible to Authority for the actions of persons and firms performing subcontract work. The subcontracting of work by Consultant shall not relieve Consultant, in any manner, of the obligations and requirements imposed upon Consultant by this agreement. All subcontractors shall comply with the insurance requirements in Section 11 as if they were the Consultant.

## **30. Dispute Resolution**

### **A. MEDIATION**

In the event of any dispute, claim, or controversy among the parties arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, the parties shall submit the dispute to the Judicial Arbitration and Mediation Service (JAMS) for non-binding mediation. The parties will cooperate with JAMS and with one another in selecting a mediator from the JAMS panel of neutrals, and in promptly scheduling the mediation proceedings. The mediation shall take place in Salinas, California. The parties covenant that they will participate in the mediation in good faith, and that they will share equally in its costs. All offers, promises, conduct and statements, whether oral or written, made in the course of the mediation by any of the parties, their agents, employees, experts and attorneys, and by the mediator or any JAMS employees, are and shall be, confidential, privileged, and inadmissible for any purpose, including impeachment, in any arbitration or other proceeding involving the parties, provided that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the mediation. If the dispute is not resolved within 30 days from the date of the submission of the dispute to mediation (or such later date as the parties may mutually agree in writing), either party may submit the dispute, claim or controversy to binding arbitration as provided in this

Agreement, or litigation, as the parties agree. The mediation may continue, if the parties so agree, after the appointment of the arbitrators. Unless otherwise agreed by the parties, the mediator shall be disqualified from serving as arbitrator in the case. The pendency of a mediation shall not preclude a party from seeking provisional remedies in aid of the arbitration from a court of appropriate jurisdiction, and the parties agree not to defend against any application for provisional relief on the ground that a mediation is pending.

**B. ARBITRATION**

Any dispute, claim, or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this agreement to arbitrate, shall be determined by binding arbitration in Salinas, California before three arbitrators. The arbitration shall be administered by JAMS pursuant to its Comprehensive Arbitration Rules and Procedures. The provisions of California Code of Civil Procedure, section 1283.05, as well as any amendments or revisions thereto, are incorporated into this agreement. Depositions may be taken and discovery may be obtained in any arbitration under this agreement in accordance with said statute or any amendment thereto. Judgment on the arbitrator's award may be entered in any court having jurisdiction. This clause shall not preclude any of the parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction. This arbitration clause is subject to the limitation in subsection C below.

**C. CLAIMS AGAINST THE AUTHORITY; STATUTE OF LIMITATIONS**

Any claims for relief against the Authority shall be subject to the claims requirements of Government Code Section 905 *et seq.* and the Authority's Ordinance Code Article 3.04 and must be submitted to arbitration or litigation within the applicable statutes of limitations governing civil actions in California, or will otherwise be barred. The arbitrators shall be without jurisdiction to hear or determine claims barred by the statute of limitations. This provision shall be enforced by the Superior Court of Monterey County or any other court of competent jurisdiction.

**31. Termination**

A. In the event that it is determined by the Authority to terminate this agreement, the Authority:

1. Shall give Consultant written notice that in the Authority's opinion the conduct of the Consultant is such that the interests of the Authority may be impaired or prejudiced, or
2. Upon written notice to Consultant, may for any reason whatsoever, terminate this agreement.

B. Upon termination, Consultant shall be entitled to payment of such amount as fairly compensates Consultant for all work satisfactorily performed up to the date of termination based upon hourly rates shown in Attachment "A," except that:

1. In the event of termination by the Authority for Consultant's default, Authority shall deduct from the amount due Consultant the total amount of additional expenses incurred by Authority as a result of such default. Such deduction from amounts due Consultant are made to compensate Authority for its actual additional cost incurred in securing satisfactory performance of the terms of this agreement, including but not limited to, costs of engaging other consultants for such purposes. In the event that such additional expenses shall exceed amounts otherwise due and payable to Consultant hereunder, Consultant shall pay Authority the full amount of such expense, but only to the extent caused by its negligence. In the event that this agreement is terminated by Authority for any reason, Consultant shall:

- (a) Upon receipt of written notice of such termination promptly cease all services on this project, unless otherwise directed by Authority; and
  - (b) Deliver to Authority all documents, data, reports, summaries, correspondence, photographs, computer software, video, and audiotapes, and any other materials provided to Consultant or prepared by or for Consultant or the Authority in connection with this agreement. Such material is to be delivered to Authority whether in completed form or in process; however, notwithstanding the provisions of Section 23 herein, Authority may condition payment for services rendered to the date of termination upon Consultant's delivery to the Authority of such material.
- C. In the event that this agreement is terminated by Authority for any reason, Authority is hereby expressly permitted to assume this project and complete it by any means, including but not limited to, an agreement with another party.
- D. The rights and remedy of the Authority provided by under this section are not exclusive and are in addition to any other rights and remedies provided by law or appearing in any other section of this agreement.
- E. Consultant may terminate this Agreement upon 30 days notice in the event of non-payment or other material breach by Authority.

### **32. Audit and Examination of Accounts**

- A. Consultant shall keep and will cause any assignee or subcontractor under this agreement to keep accurate books of record in account, in accordance with sound accounting principles, which records pertain to services to be performed under this agreement.
- B. Any audit conducted of books and records and accounts shall be in accordance with generally accepted professional standards and guidelines for auditing.
- C. Consultant hereby agrees to disclose and make available any and all information, reports, or books of records or accounts pertaining to this agreement to Authority and any local, State or Federal government that provides support funding for this project.
- D. Consultant hereby agrees to include the requirements of subsection (B) above in any and all contracts with assignees or consultants under his agreement.
- E. All records provided for in this section are to be maintained and made available throughout the performance of this agreement and for a period of not less than three (3) years after full completion of services hereunder, except that any and all such records which pertain to actual disputes, litigation, appeals, or claims shall be maintained and made available for a period of not less than three (3) years after final resolution of such disputes, litigation, appeals, or claims.

### **33. Extent of Agreement**

This agreement represents the entire integrated agreement between Authority and Consultant and supersedes all prior negotiations, representations, understandings, or agreements between the parties either written or oral.

### **34. Notices**

- A. Written notices to the Authority hereunder shall, until further notice by Authority, be addressed to:

***Via Mail***

Salinas Valley Solid Waste Authority  
Attn: Mr. R. Patrick Mathews,  
General Manager/CAO  
P.O. Box 2159  
Salinas, CA 93902-2159

***Hand Delivered***

Salinas Valley Solid Waste Authority  
Attn: Mr. R. Patrick Mathews,  
General Manager/CAO  
128 Sun Street Suite 101  
Salinas, CA 93901

- B. Written notices to the Consultant shall, until further notice by the Consultant, be addressed to:

Geo-Logic Associates

John Hower

2777 Guasti Rd Suite 1

Ontario, Ca. 91761

- C. The execution of any such notices by the Chief Administrative Officer or Assistant General Manager representative of the Authority shall be effective as to Consultant as if it were by resolution or order of the Authority Board, and Consultant shall not question the authority of the Chief Administrative Officer or Assistant General Manager to execute any such notice.
- D. All such notices shall either be delivered personally to the other party's designee named above, or shall be deposited in the United States Mail, properly addressed as aforesaid, postage fully prepaid, and shall be effective the day following such deposit in the mail.

### **35. Nondiscrimination**

During the performance of this agreement, Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, ancestry, creed, sex, national origin, familial status, sexual orientation, age (over 40 years), or disability. Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, ancestry, creed, sex, national origin, familial status, sexual orientation, age (over 40 years), or disability.

### **36. Conflict of Interest**

Consultant warrants and declares that it presently has no interest, and shall not acquire any interest, direct or indirect, financial or otherwise, in any manner or degree which will render the services required under the provisions of this agreement a violation of any applicable state, local, or federal law. Consultant further declares that, in the performance of this agreement, no subcontractor or person having such an interest shall be employed. In the event that any conflict of interest should nevertheless hereinafter arise, Consultant shall promptly notify Authority of the existence of such conflict of interest so that Authority may determine whether to terminate this agreement. Consultant further warrants its compliance with the Political Reform Act (Government Code section 81000 *et seq.*) that apply to Consultant as the result of Consultant's performance of the work or services pursuant to the terms of this agreement.

### **37. Headings**

The section headings appearing herein shall not be deemed to govern, limit, modify, or in any manner affect the scope, meaning, or intent of the provisions of this agreement.

**38. Multiple Copies of Agreement**

Multiple copies of this agreement may be executed but the parties agree that the agreement on file in the office of the Clerk of the Authority Board is the version of the agreement that shall take precedence should any differences exist among counterparts of the documents.

IN WITNESS THEREOF, the parties hereto have made and executed this Agreement on the date first above written.

**SALINAS VALLEY SOLID WASTE AUTHORITY:**

APPROVED AS TO FORM:

\_\_\_\_\_  
R. Patrick Mathews  
General Manager/CAO

\_\_\_\_\_  
Thomas M. Bruen  
Authority General Counsel

ATTEST:

\_\_\_\_\_  
Erika J. Trujillo  
Clerk of the Board

**CONSULTANT: GEO-LOGIC ASSOCIATES**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title

Attachments:

Attachment A - Description of Tasks  
Attachment B - Cost Proposal

# Attachment A

discussions/meetings with agencies will be documented, as appropriate, by GLA's Project Manager.

As part of Task G3, GLA's Project Manager will be responsible for preparing monthly progress reports, which will accompany invoices for services rendered. The reports will include descriptions of monthly activities performed, activities to be undertaken during the following month, identifiable concerns, and proposed solutions. The Project Manager will also be responsible for:

- Informing the Authority of all significant events
- Making recommendations for resolution of problematic project conditions
- Integrating all project components
- Regular monitoring of progress
- Providing sound technical recommendations
- Quality control audits of reporting, analytical, and monitoring activities.
- Developing and maintaining cost-control scheduling, estimating, and status
- Reporting systems necessary to ensure that the project is completed on time and within budget.

GLA's Project Manager will be the primary point of contact with the Authority. Any billing inquiries or issues should be directed to the GLA's Project Manager, who will then provide an expeditious response, and will work with the Authority to resolve any issues. Draft invoices will be provided to the Project Manager each month, and will show all charges by task (including hours and rates) for each Team member. These invoices also include a variance analysis, showing budgets, earned value, and total billed for each task. This information will be compared to the project schedule, and any discrepancies will be addressed and/or corrected.

## 4 Description of Tasks

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### 4.1 SITE SPECIFIC SAMPLING PLAN

As part of our existing contract for this work, GLA prepared a project-specific sampling plan that is composed of four site-specific sampling plans. The Sampling Plan is updated periodically to reflect changes to the each site's groundwater monitoring program. For Task G1, the existing sampling plans for each site will be reviewed and updated, as appropriate, to incorporate changed conditions. The updated sampling plans will include the following elements: well locations; purging and sampling protocols (including quality assurance); sample bottles, preservation, and shipment procedures; laboratory methods and laboratory quality assurance/quality control; data validation, statistical analysis, and trend analysis methods; and quarterly/semi-annual/annual reporting. The draft updated Sampling Plan will be provided to the Authority within two weeks of award of the project for review and comment. The final Sampling Plan will be provided to Monitoring and Reporting team members for use throughout the term of the contract. Update and distribution of the routine monitoring Sampling Plan is conducted at a nominal cost that will not be passed on to the Authority.

## 4.2 HEALTH AND SAFETY PLAN

As required by our existing contract with the Authority for this project, GLA developed a comprehensive project health and safety plan. The project Health and Safety Plan (HASP) details the methods and procedures that will be implemented to protect workers from existing and potential hazards during field operations. This plan will be updated for the next contract to reflect changes in site conditions that potentially affect worker health and safety. Updates to the HASP will continue to take into account site-specific conditions, follow CAL-OSHA regulations and EPA Standard Operating Safety Guides. At a minimum, the updated HASP Plan will address:

- Site locations and anticipated conditions
- Location of nearby hospitals and emergency control agencies
- Site and office support contacts
- Brief descriptions of anticipated field activities
- Anticipated chemical, biological, and physical hazards
- Brief description of safe field procedures
- Brief description of relevant mitigation measures
- Personnel and equipment monitoring procedures
- Brief description of personnel protective equipment
- Brief description of additional safety equipment
- Contingency plans
- Emergency procedures and protocols

As part of Task G2, an updated draft copy of the Health and Safety Plan will be submitted for the Authority's review at least one week before initiation of field activities. GLA understands that the Authority has its own site safety protocols and policies, and will incorporate those into our site safety plan, as appropriate. The GLA Project Manager will then incorporate Authority comments, finalize the HASP and distribute it to project team members who participate in routine field sampling.

Understanding that the scope of work and project work areas have not changed significantly during the last few years, the HASP plans remain largely valid, and would require no significant updates to carry forward into the next contract. Update and distribution of the HASP is conducted at a nominal cost that will not be passed on to the Authority.

## 4.3 MONTHLY PROJECT STATUS TABLE

As has been our practice, GLA typically includes a monthly summary of routine and non-routine activities and budget status table with our monthly invoices to the Authority. The monthly summaries includes significant completed milestones. For the next contract, GLA will revise the monthly summary to include a summary of work activities scheduled for the upcoming month.

#### 4.4 GENERAL NON-ROUTINE TASKS

As discussed in Section 3.3, when the Authority identifies a non-routine service, GLA will prepare a scope, schedule, and cost estimate to perform the service. Minor non-routine work will be rolled into existing routine-task budgets, when possible.

#### 4.5 GROUNDWATER SAMPLING & ANALYSES

The following section describes work that will be conducted as part of Tasks M1 through M4, as outlined in the RFP.

Approximately one to two weeks prior to mobilization for each sampling event, GLA will order sample containers for the appropriate landfills from the Authority's contract laboratory - currently BC Laboratories. The laboratory will be notified of the number of monitoring points and the appropriate analytical parameter to be analyzed for each sample matrix, and the laboratory will be directed to provide extra containers for collection of appropriate field and equipment blanks.

GLA's sampling personnel will ensure that all sample bottles are "clean-certified" from the laboratory or supplier. Sample containers that appear dirty, used, or otherwise compromised will not be used. Sample bottles containing preservatives will be appropriately marked. Sample shipping containers, coolers, ice packs, and any other materials that may contact sample bottles will be regularly inspected for cleanliness, durability, and functionality. Damaged coolers will not be used, as they may compromise sample integrity.

Single samples will be collected from each monitoring point, and these samples will be analyzed for the monitoring parameters specified in the individual site M&RPs and subsequent changes to the M&RPs as a result of new well construction, meetings with the RWQCB and specific requests by the Authority, as detailed below.

##### Crazy Horse Landfill – Monitoring and Reporting Program No. R3-2013-0016

Quarterly Sampling	8 residential wells; grab samples 2 residential well GAC influent liquid samples 2 residential well GAC intermediate liquid samples 2 residential well GAC effluent liquid samples
Semiannual and Annual Sampling	47 groundwater monitoring wells 1 CAP influent liquid sample (currently off-line) 1 CAP effluent liquid sample (currently off-line) 14 piezometer water level measurements 1 annual leachate grab sample 1 annual landfill gas condensate sample
Analytical Parameters	VOCs by EPA 8260B Total Petroleum Hydrocarbons by EPA 8015M Chloride, Nitrate-N, and Sulfate by EPA 300.0 Alkalinity by SM 2320B TDS by EPA 160.1 Perchlorate by EPA 314.0 Metals (Iron, Manganese, and Sodium) by EPA 6010B Field Parameters (Temperature, pH, Electrical Conductivity, Turbidity, and recommended: Dissolved Oxygen, Oxidation Reduction Potential)



### Johnson Canyon Road Landfill – Monitoring and Reporting Program No. R3-2008-0011

Semiannual and Annual Sampling	7 groundwater monitoring wells (2 or 3 are typically dry or have too little water to sample) 2 domestic well grab samples 1 annual retention basin sediment sample (if the basin sediment is not removed before the rainy season) 1 annual leachate grab sample
Analytical Parameters	VOCs by EPA 8260B Chloride, Nitrate-N, and Sulfate by EPA 300.0 Alkalinity by SM 2320B TDS by EPA 160.1 Perchlorate by EPA 314.0 Manganese by EPA 6010B Field Parameters (Temperature, pH, Electrical Conductivity, Turbidity, and recommended: Dissolved Oxygen, Oxidation Reduction Potential)

### Jolon Road Landfill – Monitoring and Reporting Program No. R3-2007-0022

Semiannual and Annual Sampling	8 groundwater monitoring wells (JR-J16 is abandoned) 2 piezometers (water level measurements, only) 1 grab seep sample 1 annual retention basin liquid grab sample 1 annual leachate grab sample
Analytical Parameters	VOCs by EPA 8260B Total Petroleum Hydrocarbons by EPA 8015M Chloride, Nitrate-N, and Sulfate by EPA 300.0 TDS by EPA 160.1 Metals (Potassium and Sodium) by EPA 6010B Field Parameters (Temperature, pH, Electrical Conductivity, Turbidity, Dissolved Oxygen and recommended - Oxidation Reduction Potential)

### Lewis Road Landfill – Monitoring and Reporting Program No. R3-2003-0109

Semiannual and Annual Sampling	8 groundwater monitoring wells 2 piezometers (water level measurements, only, unless other well exhibit impacts) 1 domestic well grab sample 3 lysimeter samples (lysimeters are typically dry)
Analytical Parameters	VOCs by EPA 8260B Total Petroleum Hydrocarbons by EPA 8015M Chloride, Nitrate-N, and Sulfate by EPA 300.0 TDS by EPA 160.1 Total Organic Carbon by EPA 415.1 Perchlorate by EPA 314.0 Metals (Barium, Chromium, Iron, Lead, Manganese, Nickel, Sodium and Zinc) by EPA 6010B Field Parameters (Temperature, pH, Electrical Conductivity, Turbidity, Dissolved Oxygen and recommended - Oxidation Reduction Potential)
5-Year Sampling (Scheduled for January 2019)	10 groundwater monitoring wells 1 domestic well grab sample 3 lysimeter samples (lysimeters are typically dry)  Samples would be analyzed for all routine monitoring parameters and all Appendix II constituents specified in the M&RP.

GLA notes that samples collected from the CHSL, JRSL, and JCSL during the second semiannual 2016 monitoring period were analyzed for COCs identified in Title 40, Part 258, Appendix II of the Code of Federal Regulations. The next COC sampling event for these three sites is scheduled to occur during the first semiannual 2021 monitoring event.

Groundwater Sampling: Groundwater samples will be collected following the procedures outlined in the *Practical Guide for Groundwater Sampling* (Barcelona, et al., 1985), *RCRA Groundwater Monitoring Technical Enforcement Guidance Document* (U.S. EPA, 1986), and *Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures* (Puls and Barcelona, U.S. EPA, 1995). While it is anticipated that sampling at a given site will only require two days (except for CHSL, which typically requires 5 days during a semi-annual sampling event), access issues (such as eroded roadways) may delay sampling of some of the monitoring points on a given day. GLA will complete all sampling at a given site within a maximum 30 day time period.

Upon arrival at a landfill site, each well will be inspected and any well-head problems will be noted on the field log. Significant problems with the well-head, such as those that prevent sampling or compromise the integrity of the well, will be reported to SVSWA (verbally and in writing) within 24 hours of observation. Residential and water supply wells near the LRSL, JCSL, and CHSL will be sampled by purging the effluent pipe for 15 minutes and collecting grab samples from the sampling port. Should the system be reactivated, samples from the groundwater extraction and treatment system at the Crazy Horse Landfill, and samples from the influent, intermediate, and effluent GAC well-head treatment systems at the Reich and Grider residential wells will be collected in a similar manner.

Prior to sampling a monitoring well, the depth to groundwater will be measured to the nearest 0.01 foot from an established well datum (e.g., top of casing) using a decontaminated electric sounding device. The depth to water will then be used to calculate the water surface elevations in the wells, and to calculate appropriate purge volumes. To evaluate groundwater flow conditions beneath the landfill, groundwater depths will be measured in all accessible site wells during each sampling event on the same day if possible.

Well purging will be accomplished using dedicated sampling equipment or, where wells are not currently equipped with pumps, using decontaminated pumps or bailers. GLA will utilize a battery-powered winch for bailing. Samples of purged water will be collected and monitored, and purging rates will be low enough so as not to induce turbulent flow within the well. As a well is purged, indicator parameters (pH, temperature, specific conductance, dissolved oxygen, and turbidity) will be monitored and recorded until they have stabilized to within 10 percent of the preceding measurements and show no discernible upward or downward trend. At the CHSL, oxidation-reduction potential (ORP) will also be monitored at least at the wells near the bioremediation system. Flow-through cells will be used to measure field parameters at wells that are purged with pumps. For sampling locations where pumps are not used (e.g., wells without pumps and surface water sampling locations), a sample will be collected in a clean container, the field instrument probe will be placed in the container, and appropriate field measurements will be recorded on a sample collection log.

GLA recognizes that many of the field parameters (such as pH and dissolved oxygen) have a very short holding time, and therefore careful calibration of the field instruments must be maintained so that accurate results can be obtained in the field. It is GLA's practice to work

with one of the analytical laboratories that we are teamed with to regularly establish instrument calibration. In the field, the instruments will be calibrated before work begins at each sampling location.

Sampling of pumped wells will be conducted by slowing the pumping rate, as appropriate, and allowing the discharge water to flow gently into designated sample containers. For bailed wells, the bailer will be slowly lowered into the water column to minimize disturbance to the collected sample, and a bottom emptying device will be inserted into the bottom of the bailer to release the sample. For wells that have very slow recharge rates (i.e., more than two hours to recover to 80 percent of its original water level), the well will be purged dry and a sample will be collected after the water level has recovered to within approximately 80 percent of its original level.

Water that is purged from each well will be collected in 55-gallon steel drums with screw top or locking lids provided by the Authority, brought to Authority-provided onsite collection point, and added to onsite leachate storage tanks. GLA will regularly inspect any drums used to ensure that they are in good repair. Any drum found to be leaking or without an adequate seal will be replaced.

Sample containers will be provided by BC Laboratories and will be stored in an area that is free from dust and exposure to organic chemicals. All groundwater samples will be poured from the pump discharge or bailer directly into the sample containers by pouring the sample down the sides of the container with as little turbulence as possible. Sampling containers will be filled in order of volatility (volatile organic compounds first, then semi-volatile organic compounds (SVOCs), pesticides, herbicides, general chemistry, and metals, as appropriate). Vials for volatile organic analyses will be filled completely to fill all the air space, capped, turned upside down, and tapped to check for air bubbles.

Trip blanks will accompany sample containers from the laboratory, through the field operations, and return to the laboratory as a QC check to determine if contamination has been introduced from the sample containers or laboratory water. Trip blanks will be collected daily. Equipment blanks will also be collected at sites with non-dedicated sampling equipment. The equipment blanks will consist of distilled, deionized, reagent-grade laboratory water passed through representative sampling equipment (e.g., bailers and bottom emptying devices) as a test of equipment decontamination. One equipment blank will be collected per monitoring event at each site. Finally, field blanks will be collected by pouring laboratory provided reagent-grade water directly into a set of sample vials as a test of site-specific environmental conditions. Field blanks will be collected at a frequency of one per site per day. All blank samples will be tested for VOCs to assess the introduction of contamination to the primary samples through various processes. Duplicate samples will be collected at a frequency of one for every ten samples per site per monitoring event. Duplicate samples will be labeled “MW-DUP”, and will be tested for the same parameters as the primary sample.

After a sample has been collected, it will be stored in a field ice chest where “blue ice” packs will be used to cool and maintain the samples at a temperature of approximately 4°C. To prevent breakage, bubble wrap or an alternative material will be placed around the samples so they do not touch each other or the side of the shipping container. Each sample will be catalogued on appropriate Chain-of-Custody documentation after it has been collected, and

these Chain-of-Custody records, and other appropriate paperwork, will be sealed in a plastic bag taped to the lid of the shipping container and will accompany each sample to the analytical laboratory. It is anticipated that samples will be provided to the laboratory courier at the end of each sampling day, and the field sampler will be responsible for the care and custody of the samples until they are shipped or otherwise delivered to the laboratory custodian.

As discussed in Section 3.2, GLA will review Chain-of-Custody documentation daily and analytical data promptly upon receipt of certificates of analysis, and will identify any analytical errors and any VOCs or other anthropogenic compounds that might indicate landfill release. GLA will notify the Authority of any new VOC impacts and verification retesting requirements. Where the results indicate potential field or laboratory contamination, upon consultation with the Authority, GLA will discuss these results with the Central Coast RWQCB in an attempt to waive the retesting requirement.

Retention Basin Sampling: Retention basin samples will be collected any time that surface water is observed during the routine monitoring event. Sample bottles will be filled to minimize air space in the sample containers. Per the site-specific M&RP, sediment samples will be collected annually using a decontaminated soil drive-sampling device. After the samples are collected, they will be sealed, labeled, and placed in the cooler for transport to the laboratory. All retention basin water samples will be collected and transported using the same Chain-of-Custody protocol outlined above for groundwater samples.

Leachate Sampling: Leachate will be sampled annually at the CHSL, JRSL, and JCSL. At these sites, leachate will be collected as grab samples from leachate collection ports fitted with labcocks that have been installed in the leachate collection lines at each site. Leachate samples will be collected by carefully filling the sample bottles, allowing the leachate to stream down the side of the sample container while ensuring that no leachate spills on the ground. Stringent health and safety protocols will be followed during leachate sampling to minimize dermal and inhalation exposure. As each sample bottle is filled, the labcock will be closed, the bottle capped, sealed, and labeled, and then placed in a chilled cooler for transport. The sampling process will follow the protocols described above until all bottles are filled. All leachate samples will be catalogued on appropriate Chain-of-Custody documentation that will accompany the samples to the analytical laboratory.

Lysimeter Sampling: Three lysimeters at the LRSL and one lysimeter at the JCSL will be sampled on a semi-annual basis. A vacuum will be applied, and each lysimeter will be evacuated to approximately 80 centibars prior to sampling. If no moisture is observed in a lysimeter during sampling, this condition will be verified by recording the electrical resistance to flow in the gypsum block installed in each lysimeter. Due to often low sample volumes, if liquid is present, VOCs will be sampled first, then other analytes as sample volume allows. Sample bottles will be filled and handled according to the protocols detailed above, with appropriate Chain-of-Custody documentation accompanying the samples to the laboratory.

Condensate Sampling: As part of this contract, samples of landfill gas condensate will be collected annually from the LRSL, CHSL, and JCSL. These samples will be collected from condensate collection ports fitted with labcocks that have been installed in the condensate collection lines near the flare stations at each of the sites. GLA will collect condensate samples follow the protocols described for leachate until all bottles are filled. All condensate samples

will be catalogued on appropriate Chain-of-Custody documentation that will accompany the samples to the analytical laboratory. Any condensate leak or spill resulting from sampling will be immediately reported to the Authority.

Seep Sampling: The seep/spring and retention basin at the JRSL have historically been too dry to sample as the seep/spring has been capped and diverted to a holding tank. However, if liquid is present or if samples are required to be collected from the holding tank, grab samples will be collected on a semi-annual basis and sealed, labeled, and placed in the cooler for transport to the laboratory. All seep/spring water samples will be collected and transported using the same Chain-of-Custody protocol outlined above for groundwater samples.

Verification Sampling: If statistical or non-statistical analyses of the analytical results indicate that a new release or a significant change in the release from a facility may have occurred, recommendations for verification and immediate RWQCB notification will be submitted pursuant to 27 CCR § 20420(j)(1-3). For purposes of verification, two discrete retest samples will be collected from each monitoring point where contamination is suspected using the same sampling and analytical protocols employed in obtaining the primary sample. Retest samples will be collected within 30 days of the initial indication of the release, and will be analyzed only for those constituents that were identified at concentrations above background in the initial sample. If the compound is not detected in either of the retest samples, then a false positive detection will be concluded for the primary sample. If the compound is detected in one or both of the retest samples, then the primary detection will have been verified.

Should retesting verify a release, at the Authority's direction and after notifying the RWQCB, a single sample from each DMP monitoring point at that site will then be analyzed for the full list of Constituents of Concern (COCs). Since the need for and extent of release-induced COC monitoring cannot be reasonably estimated, costs for such an event are not included in the enclosed estimate.

Quality Assurance: The primary focus of GLA's QA/QC program is to complete the specified work to the highest quality professional standards. GLA's professionals possess a thorough knowledge of QA/QC procedures and are skilled at observing and/or supervising all aspects of this project, including drilling and well installation; water-quality sampling, analysis, and reporting; and treatment system operation and maintenance. An overview of GLA's standard QA/QC program, which will be used for the Authority's project, is presented below:

- Following the review of work plans by field personnel, the planned work is discussed with senior personnel prior to mobilization to assure that field personnel have a complete understanding of the project goals, minimizing the potential for error.
- All field equipment is routinely calibrated to assure accurate readings are obtained.
- As further described below, a thorough data validation process is employed to assure that any transcribed data are checked by a second person so that accurate test results are evaluated and reported.
- Checklists are employed to assure that all aspects of a field assignment are completed in a single mobilization, minimizing the chance for schedule delays. Checklists are particularly critical when performing routine O&M activities because the field personnel

are prompted to check the operational status of each part, and when maintenance activities include replacing key system components, the checklist provides a reminder that additional spare parts require ordering.

- GLA's overall QA program includes periodic review of all projects by senior personnel to provide critical comment and review of results. This review commonly results in the development of alternative cost-effective methods that modify and optimize the initial project procedures without compromising the integrity of the final product.
  - ◆ Data evaluation will be completed as described in Section 4.5 and represents the most significant aspect of the monitoring and reporting program because it must be documented that the data are valid. Once validated, the data will be used to provide a basis for interpretation of site conditions at a level that satisfies all of the requirements needed to complete the water quality monitoring reports.
  - ◆ At the end of each day, copies of the field log book, sample collection log, and chain of custody documents will be emailed to the Reporting Coordinator, who will be responsible for reviewing the documents for completeness, documentation of equipment calibration and sample handling and chain-of-custody protocols, and consistency of field measurements with historical data. By this frequent review procedure, any deviations in procedures or protocols can be corrected immediately and the project schedule does not get impacted.
  - ◆ The laboratory data will undergo a detailed QA review to assess its precision and accuracy with the use of laboratory and field sample analyses. The QA program will include the collection by the field sampling personnel of liquid field duplicates, liquid rinsate (equipment blanks), and trip blanks for submittal to the analytical laboratory. All blanks will be labeled without indication of their source (i.e. labeled to indicate a different location so as to prevent laboratory bias). In accordance with the laboratory QA/QC program, the laboratory will also prepare and document matrix spikes, matrix spike duplicates, surrogates, and method blank results.
  - ◆ As the data is received, rigorous data validation procedures will be employed by the Reporting staff to assess the precision of the data (its reproducibility) by looking at the relative percent difference (RPD) and relative standard deviation (RSD) of the sample and the duplicate results. Accuracy will be evaluated from information obtained on the spiked samples by evaluating the percent recovery compared with the known spike amount. Surrogates (compounds that act and react similarly to the compounds of interest but which do not interfere with the constituent being analyzed) may also be spiked into the sample and used to evaluate the accuracy of certain test methods for organic compounds.
  - ◆ In accordance with GLA's current QA/QC protocols, when laboratory analytical reports are received, they are date stamped and reviewed by responsible staff for completeness and conformance with holding time requirements. Rather than receive digital copies of the data that can be automatically downloaded into the various data files, GLA will continue to enter all laboratory data manually, with second-person QC evaluations of all manually entered data. We have found this practice, which may appear outdated and time-consuming at first glance, to



provide the best opportunity to critically review the laboratory data, enabling our staff to identify and resolve potential data anomalies quickly. Only after all laboratory data has been thoroughly reviewed and approved by GLA's Reporting Task Manager will the laboratory be given approval to submit data to the GeoTracker program.

#### 4.6 DATA EVALUATION

Data Validation: The data validation process will include QA/QC review of all field data and laboratory data. The field data validation will include periodic unannounced field audits of the field sampling by the Project Manager and/or Reporting Coordinator to assess the protocols being employed by field personnel at the site for equipment calibration, log book entries, sampling and sample handling, and chain-of-custody procedures. A field audit checklist will be completed to document field investigation compliance with the established protocols to provide valid data. The audit checklist and comments will be reviewed with the Project Manager, Reporting Task Manager, and field personnel as needed, to ensure proper fulfillment of the field program objectives.

Non-field data validation is performed in multiple steps from the time the samples are collected through receipt of the laboratory report and report preparation. Initially, following sample collection, the field sampling crew will provide the field notes and chain-of-custody forms to the Monitoring and Reporting team members for review. The field notes are reviewed for consistency with the historical well data (e.g., water level measurements) and any unusual site conditions. As described in Section 4.2, the chain of custody form is reviewed to confirm that it was properly completed, listing the correct analytical program, and is consistent with the site Bottle Order Form. Once the samples have been received by the lab, GLA has established a protocol of data review by accessing the BC Laboratories web site. From the web site, each set of samples submitted is displayed with the list of analyses to be performed and the results obtained as the analyses are completed. In this way, GLA can review the project information throughout the laboratory analysis phase of the program and contact BC Laboratories if there are any discrepancies in the data before the final laboratory report is received.

While GLA strives to collect samples that are representative of field conditions, "false positive" indications of release are an expected artifact of large monitoring programs and required statistical analyses. When analytical results indicate that samples have been impacted, the results of the accompanying QA/QC samples will be evaluated to determine if the samples could have been contaminated during the sample collection or analytical processes. When field contamination is suspected, the sampling procedures will be reviewed with the sampling crew and/or analytical laboratory to minimize the potential for a repeat of the error. [For example, if gasoline components are detected in the samples and the field blank, it may be possible that the samples were collected downwind of a gasoline-powered engine, and correction may include verification that samples are collected upwind of a potential contaminant source.]

In the case of suspected laboratory contamination, GLA will review the data to identify possible contaminant sources, and will meet with the analytical laboratory to discuss the historical data and potential false positive results. The laboratory will be required to take appropriate measures to identify the cause of laboratory-related sample contamination, and will be required to implement a program to reduce the possibility of future contamination. In any

event, if the “false positive” cannot be readily dismissed, as a result of analytical or field QA/QC procedures, GLA will perform a retest of the monitoring point as required.

Statistical Analyses: Routine statistical analyses are no longer required to evaluate the groundwater chemistry data at the Authority’s sites. In lieu of routine statistical analyses, GLA has calculated background or intrawell Concentration Limits for analytes detected in more than 50 percent of samples. Concentration Limits are based on an upper 95 percent tolerance limit, and are periodically reviewed and recalculated based on trends in background data. At a minimum, the Concentration Limits are recalculated once every five years coincident with the Constituent of Concern sampling event. As a result, the Concentration Limits for the LRSI were recalculated in 2014, and the Concentration Limits for the other landfills are being recalculated to include the 2016 COC data. Concentration Limits are calculated using the methods prescribed in the United States Environmental Protection Agency’s July 1992, “Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities – Addendum to Interim Final Guidance.” The recalculated Concentration Limits will be presented to the Central Coast RWQCB as a technical memorandum for their review, consideration, and adoption. Subsequent sampling results will be compared to these Concentration Limits. As appropriate, measured concentrations that exceed the respective Concentration Limit are considered a statistical indication of a release, and may require verification retesting as described above.

For analytes that are not frequently detected, the non-statistical VOC and COC Special Analysis, as outlined in SWRCB Resolution 93-62, will also be performed. Since VOCs or other anthropogenic organic compounds are not expected in background/upgradient wells at landfill sites, VOC/COC Special Analysis is a useful deterministic tool to identify a potential release from the landfill. If a new VOC/COC Special “hit” is identified, this information will be transmitted verbally to the Authority Project Manager with a recommendation for retesting, if appropriate. [It should be noted that in some cases (e.g., detection of constituents such as methylene chloride and toluene, which are common laboratory or field-introduced contaminants or detection of previously-identified VOCs), retesting may not be necessary. This conclusion will be reviewed with the Authority and, if appropriate, negotiated with the RWQCB.] Similarly, within 24-hours of receipt of the data, the summary tables and supporting data will be reviewed for potential indications of release. If the data suggest evidence of a new release at any well (particularly in the residential water supply wells) , this information will be reported to the Authority Project Manager immediately so that appropriate responses (i.e., RWQCB notifications and retesting) can be implemented. At the direction of the SVSWA, GLA can provide verbal notification to the appropriate RWQCB by phone within the required 24-hour time period. A follow-up letter to provide written documentation and notification of a tentatively identified release to the RWQCB will then be prepared and submitted to the Authority. This notice will include a summary of the laboratory findings, and a copy of the relevant laboratory analytical report(s). The Authority can then use the letter and laboratory analytical report(s) as a basis for providing the 7-day tentative release notification to the RWQCB required by regulation.

Trend Analyses: Analysis of water quality data trends is an annual reporting requirement for the Authority’s landfills. Trend analyses will be performed by plotting the concentrations of chemical constituents over five years or the period of time that a well or probe has been sampled, whichever is less. GLA proposes to continue to use Microsoft™ Excel® to prepare the



time-series plots. These charts will be prepared using black and white graphics with distinctive data markers and line patterns for each well or analyte so that the charts can be photocopied with acceptable quality.

GLA proposes the following strategy to prepare time-series plots. GLA will prepare time-series plots comparing background and compliance well data (interwell charts). In general, no more than five data sets will be presented on one chart to maximize presentation clarity. The historical sample data from each well will be plotted with a unique symbol marking the data point, and the trend lines connecting background well data will be dashed to distinguish it from compliance well data. On these charts, the historical data will also be compared with Federal maximum contaminant levels (MCLs). Concentrations that are below the method detection limit (MDL) will be plotted at one-half of the MDL reported specifically during each monitoring period. Data that are not available will be shown by a break in the trend line. Additional charts may be prepared for VOCs in select wells if it is useful to show the inter-relationships of multiple VOCs that are consumed or produced as a result of reductive dechlorination.

Data trends will be summarized on time-series charts within the annual reports. In analyzing time-series charts, it is important not to describe a trend simply according to the slope of a mathematically calculated data trend line. Rather, it is important to review historical seasonal fluctuations in data, changes in MDLs, and concentration changes that may be the result of a change in laboratory analytical methods or field sampling protocols. As a result, our approach to trend analysis is somewhat qualitative, and it provides a better opportunity to evaluate changes in groundwater by accounting for factors that are not typically accounted for in pure mathematical approaches. Significant increasing or decreasing trends will be described in detail following the summary table, with the level of discussion particularly enhanced when changes in historical trends appear to be developing.

Constituents of Concern (COC) Evaluation: The COC analytes typically include an extended list of VOCs, SVOCs, pesticides, herbicides, 17 metals, sulfide, and cyanide as defined in 40 CFR Part 258. COC testing is required at least once every five years unless a new release is indicated, in which case COC testing must be performed within 90 days of determining the release. The next COC testing is required at the LRSL in 2019, and at the CHSL, JCSL, and JRSL in 2021.

Once COC data are received, a list of routine monitoring parameters will be developed based on analytes that show statistically significant differences between background and downgradient concentrations. In addition, since none of the organic compounds on the COC list occurs naturally in groundwater, their presence alone would indicate an anthropogenic source that might include the landfill. Most of these organic compounds are mobile in groundwater and as a result, GLA would anticipate adding any organic constituents that are detected during the COC analysis to the list of routine monitoring parameters. The following procedures will be followed before recommending any addition to the routine list of monitoring parameters:

- If a new organic compound is detected in a sample, two retest samples will be collected and analyzed to verify its presence.
- If the organic compound is not detected in both of the retest samples, then a false positive detection will be concluded for the primary sample, and the organic compound will not be added to the list of routine monitoring parameters.

- If the organic compound is detected in one or both of the retest samples, then the primary detection is confirmed, and GLA would recommend adding the compound to the routine list of monitoring parameters.

Prepare Water Quality Protection Standards: Section 20390 of 27 CCR requires development of a water quality protection standard (WQPS) for each landfill. The WQPS includes a list of the COCs, the Concentration Limits, the point of compliance and all monitoring points at the site. The WQPS applies during the active life of a landfill, the closure period, the post-closure maintenance period, and during any compliance period.

If additional background wells are installed at any of the Authority's sites, data from the new background wells will be combined with other background well data to calculate a revised WQPS. Interwell comparisons require that an upper 95 percent confidence interval (tolerance limit) be established for each analyte for the background monitoring well. For intrawell testing, the tolerance limit can be used to establish Concentration Limits for each analyte in each monitoring well.

#### **4.7 REPORT PREPARATION**

This section address Task R1 through R4 of the RFP. Routine landfill monitoring reports will be prepared for each of the Authority's landfills in accordance with RWQCB requirements, and the Authority's requests to include site-specific information. Each report will also contain information required by the individual site WDRs, including:

- Transmittal letter/executive summary
- Table of contents
- Site introduction
- Sampling and analysis plan
- Laboratory analyses and QA/QC results
- Descriptions of sampling and analytical procedures and parameters
- Discussion of statistical and/or non-statistical data evaluation
- Historical groundwater elevation data
- A groundwater elevation contour map
- Historical tables and time-series charts of laboratory test results for each well
- Summary tables of analytical results for the reporting period(s)
- A discussion of the results of the water quality monitoring event and the facility's compliance status.
- Discussion of corrective action systems and corrective action results, as appropriate for each site.
- Operations and maintenance reports, as appropriate, for each site's landfill gas and leachate collection system.

- Site monitoring and maintenance information, including rainfall data, standard observations, waste intake, and other site-specific observational records.
- Final cover system performance information and post-closure settlement maps, as appropriate.
- Other information that the Authority or RWQCB request to be included.

As shown in the attached example report (including on the CD in Attachment C), data tables for each monitoring point include both current and historical analytical and field parameter values (all historically detected compounds are included). These tables are formatted so that data is shown chronologically for easy evaluation of temporal trends. They also include basic statistical data for every analyte/parameter in the final columns, including median, average, standard deviation, minimum, and maximum. Data qualifiers (e.g., possible laboratory contaminant, trace value, etc.) are indicated and method detection limits are shown when a compound is not detected.

Each report will contain a site location map and groundwater equipotential contour map(s). In addition, the report for the CHSL will contain figures illustrating contaminant distribution at the site. All report figures will be rendered in AutoCAD.

As required, the monitoring reports will also integrate data collected and reports prepared by Authority staff and other consultants (e.g., “general observations”, copies of regulatory agency inspection reports, copies of the diversion and drainage facilities inspection and evaluation logs, landfill gas monitoring reports, etc.). If new Concentration Limit calculations are performed (as anticipated for the LRSL following the 2019 monitoring event), the Concentration Limit calculations will also be included in a report appendix. Supplementary data regarding storm water monitoring, landfill gas monitoring, leachate control systems, and corrective action systems will be evaluated during every monitoring period in relation to the concentration(s) and distribution of groundwater impacts. Landfill gas, in particular, is a likely source of most of the volatile organic compounds detected in groundwater samples, and changes in the behavior of landfill gas are often a precursor to changes in groundwater quality.

Prior to submittal of any work product to the Authority, GLA will provide comprehensive senior peer review of all deliverable technical documents. In addition, we expect that the Authority will approve all project work scopes and will also review all deliverables in draft form so that final submittals are responsive to the Authority’s needs. Draft copies of monitoring reports will be submitted to the Authority approximately one to two weeks prior to required RWQCB submittal dates. As requested, final reports will be provided to the Authority as PDF files on a CD. In addition, GLA will provide the Authority with a hard copy of the report, whenever requested. If requested at any time, GLA will also provide the Authority with the report in original Microsoft® WORD format and the report tables in Microsoft® EXCEL format.

As indicated in Section 3.2, GLA will comply with all requirements of the SWRCB GeoTracker program. Following each sampling event, GLA will prepare the site specific report and save all of the text, figures and tables into PDF files for uploading to GeoTracker. In addition, the laboratory will prepare the data into a specific electronic data file, which will be transmitted to GLA for uploading to GeoTracker under the site's I.D. number.

## Summary of Landfill Semiannual Reporting Schedule

Landfill	Reporting Frequency	Semi-Annual RWQCB Due-Date	Semi-Annual + Annual RWQCB Due-Date
Crazy Horse *	Semi-Annual with Annual Summary	July 31	January 31
Johnson Canyon	Semi-Annual with Annual Summary	August 31	February 28
Jolon Road	Semi-Annual with Annual Summary	September 30	March 31
Lewis Road	Semi-Annual with Annual Summary	October 31	April 30

\* In addition, Quarterly residential well reports are transmitted to each resident, to the Authority, and to the RWQCB by April 30<sup>th</sup>, June 30<sup>th</sup>, September 30<sup>th</sup>, and December 30<sup>th</sup>.

These report submittal dates are based on site-specific M&RP requirements as well as modifications to these schedules as agreed upon by SVSWA and the Central Coast RWQCB.

Crazy Horse Sanitary Landfill – In accordance RWQCB-approved M&RP for the site, and revisions to the reporting submittal schedule as agreed upon by the RWQCB and the Authority, routine landfill monitoring reports will be prepared and submitted to the SVSWA on a semi-annual basis, one report summarizing the results of Summer/Fall monitoring activities conducted in July (report due January 31) and one summarizing the results of Winter/Spring monitoring conducted in January (report due July 31). Annual summary reporting for the landfill will be combined with the Summer/Fall semi-annual report. In addition to the required elements of routine semi-annual reporting, reports will also include an evaluation of trends interpreted from time-series plots for at least the previous five calendar years; describe any apparent increasing and/or decreasing trends; and report any monitoring changes made or observed since the last semi-annual report. Because the CHSL has several corrective systems, the annual reports will also include an evaluation of each corrective action system with respect to its effectiveness and the mass of VOC removed during the previous year. With the adoption of the Corrective Action Plan in 2013, the report also includes an assessment of the corrective action goal attainment and additional corrective actions taken by the Authority during the monitoring period to increase the likelihood of attaining those goals.

In addition to the semiannual/annual site monitoring reports, quarterly reports documenting the results of sampling residential wells will also be prepared and provided to the homeowners within approximately one month following each sampling event. Each residential report will include a cover letter that describes the sampling procedures, laboratory analyses, and results. The results will be compared to historical data and water quality protection standards. Should an analyte concentration exceed a water quality protection standard, GLA will explain the significance in the report. The quarterly reports will be accompanied by the laboratory report and the field sampling log. As is the current practice, quarterly reports are not uploaded to Geotracker to protect the homeowners' privacy. Reports will be provided to the Authority and the Central Coast RWQCB on CD or as a PDF by email.

Johnson Canyon Sanitary Landfill – In accordance with the RWQCB-approved M&RP for the site and the site monitoring conditions and sampling frequency provided in the RFP, a routine landfill monitoring report will be prepared and submitted to the Authority on a semi-annual basis, one report summarizing the results of Summer/Fall monitoring activities conducted in

September (report due February 28) and one summarizing the results of Winter/Spring monitoring conducted in March (report due August 31). Annual summary reporting for the landfill will be combined with the Summer/Fall semi-annual report. In addition to the required elements of routine semi-annual reporting, reports will also include an evaluation of trends interpreted from time-series plots for at least the previous five calendar years; describe any apparent increasing and/or decreasing trends; and report any monitoring changes made or observed since the last semi-annual report.

Jolon Road Sanitary Landfill – In accordance with the RWQCB-approved M&RP for the site and the site monitoring conditions, and a revised reporting schedule agreed upon between the Authority and the RWQCB, a routine landfill monitoring report will be prepared and submitted to the SVSWA on a semi-annual basis, one report summarizing the results of Summer/Fall monitoring activities conducted in September (report due March 31) and one summarizing the results of Winter/Spring monitoring conducted in March (report due September 30). Annual summary reporting for the landfill will be combined with the Summer/Fall semi-annual report. In addition to the required elements of routine semi-annual reporting, reports will also include an evaluation of trends interpreted from time-series plots for at least the previous five calendar years; describe any apparent increasing and/or decreasing trends; and report any monitoring changes made or observed since the last semi-annual report.

Lewis Road Sanitary Landfill – In accordance with the RWQCB-approved M&RP for the site and the site monitoring conditions and sampling frequency provided in the RFP, a routine landfill monitoring report will be prepared and submitted to the Authority on a semi-annual basis, one report summarizing the results of Fall/Winter monitoring activities conducted in January (report due April 30) and one summarizing the results of Spring/Summer monitoring conducted in July (report due October 31). Annual summary reporting for the landfill will be combined with the Fall/Winter semi-annual report. In addition to the required elements of routine semi-annual reporting, reports will also include an evaluation of trends interpreted from time-series plots for at least the previous five calendar years; describe any apparent increasing and/or decreasing trends; and report any monitoring changes made or observed since the last semi-annual report.

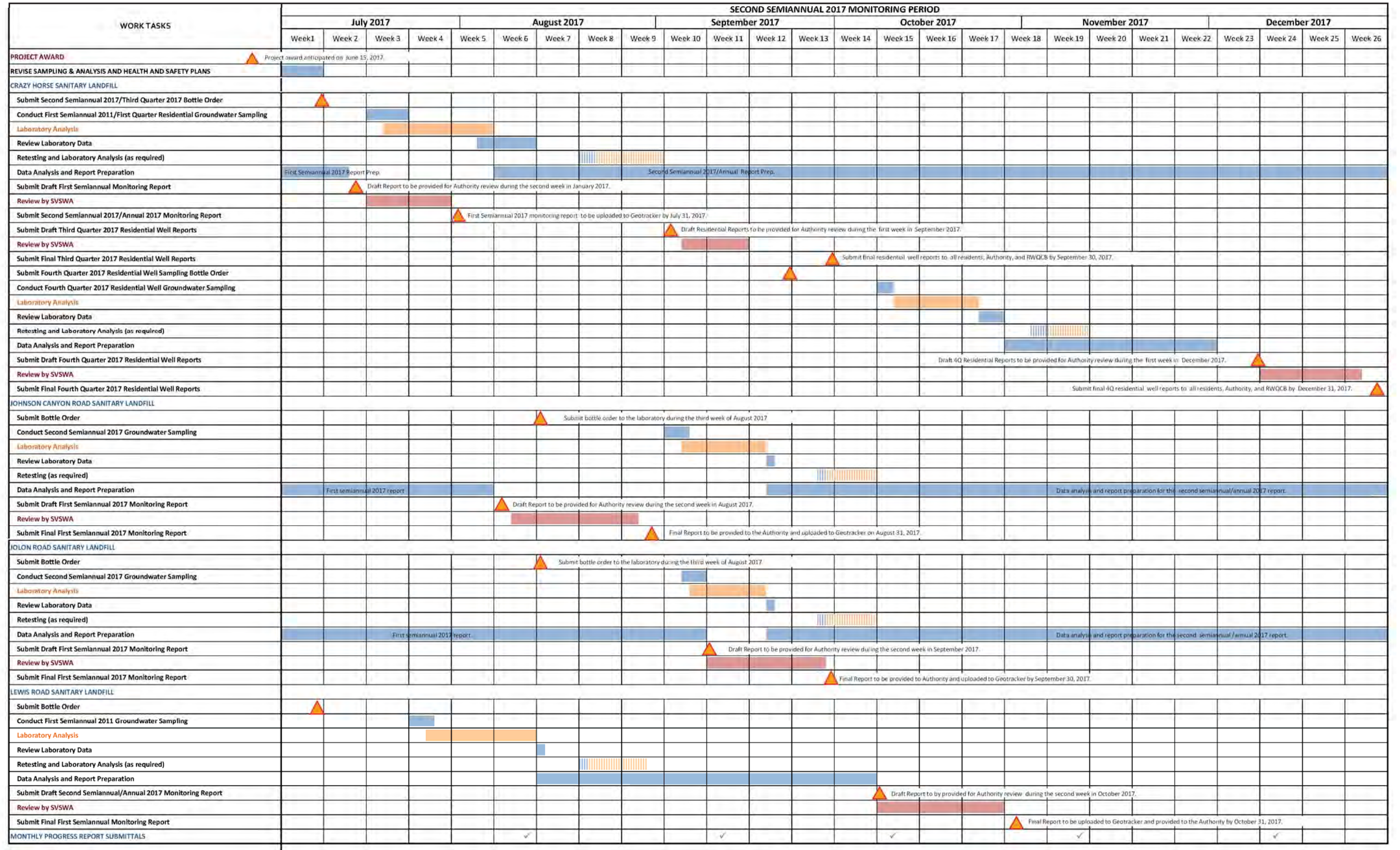
## 5 Schedule

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The project schedule (Figure 3) provided on the following page lists the principal work tasks to complete one semiannual monitoring period for the project in accordance with the RFP and the requirements outlined in the site-specific M&RPs. Based on our understanding and experience with this project, the schedule for the routine tasks of one semiannual monitoring period is typically representative of work flow and schedule for all other semiannual monitoring periods. The proposed schedule reflects GLA's commitment to the Authority to provide uninterrupted work so that each report is submitted to the RWQCB prior to the respective deadline.



**FIGURE 3 - REPRESENTATIVE PROJECT SCHEDULE - SECOND SEMI-ANNUAL 2017 MONITORING PERIOD**  
**GROUNDWATER MONITORING AND REPORTING SERVICES FOR SALINAS VALLEY SOLID WASTE AUTHORITY LANDFILL SITES**





## PART II – COST PROPOSAL

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**PROJECT COST ESTIMATE FOR JULY 2017 TO JUNE 2020**  
**GROUNDWATER MONITORING AND REPORTING SERVICES FOR SALINAS VALLEY SOLID WASTE AUTHORITY LANDFILLS**

	Principal Geologist/ Engineer	Project Geologist/ Engineer	Staff Geologist/ Engineer	CADD Designer	Clerical	Field Technician	Total Hours	Total Labor Cost	Miscellaneous Expenses	Vehicle Use	Sampling Equipment	Total Expenses	Total Project Costs
Unit Rate	hr. \$200	hr. \$135	hr. \$100	hr. \$110	hr. \$87	hr. \$87			2% of labor	hr. \$14	hr \$15		
TASK G1 - SITE SPECIFIC SAMPLING AND ANALYSIS PLAN	GLA offers this service at no cost to the Authority												\$ -
TASK G2B - PROJECT HEALTH AND SAFETY PLAN	GLA offers this service at no cost to the Authority												\$ -
TASK G3 - MONTHLY PROJECT STATUS TABLE	72						72	\$14,400	\$288				\$ 14,688
TASK G4 - GENERAL NON-ROUTINE SERVICES	GLA to develop non-routine project specific cost estimates.												
TASK M1 - MONITORING AT THE CRAZY HORSE SANITARY LANDFILL	5		12			795	812	\$71,365	\$1,429	738	738	\$21,402	\$ 94,196
TASK M2 - MONITORING AT THE JOHNSON CANYON ROAD SANITARY LANDFILL	1.5		6			126	133.5	\$11,862	\$237	120	108	\$3,300	\$ 15,399
TASK M3 - MONITORING AT THE JOLON ROAD SANITARY LANDFILL	1.5		6			126	133.5	\$11,862	\$237	120	108	\$3,300	\$ 15,399
TASK M4 - MONITORING AT THE LEWIS ROAD SANITARY LANDFILL	1.75		7			144	152.75	\$13,578	\$272	126	126	\$3,654	\$ 17,504
TASK R1 - REPORTING FOR THE CRAZY HORSE SANITARY LANDFILL	12	48	318	48	195		621	\$62,925	\$1,259				\$ 64,184
TASK R2 - REPORTING FOR THE JOHNSON CANYON SANITARY LANDFILL	6	12	120	12	45		195	\$20,055	\$401				\$ 20,456
TASK R3 - REPORTING FOR THE JOLON ROAD SANITARY LANDFILL	6	12	120	12	45		195	\$20,055	\$401				\$ 20,456
TASK R4 - REPORTING FOR THE LEWIS ROAD SANITARY LANDFILL	6	12	134	12	45		209	\$21,455	\$429				\$ 21,884
Total Estimated Hours	111.75	84	723	84	330	1191	2,524	--	--	1104	1080	--	Project Cost
Total Estimated Cost	\$22,350	\$11,340	\$72,300	\$9,240	\$28,710	\$103,617	--	\$247,557	\$4,952	\$15,456	\$16,200	\$31,656	\$284,165



ESTIMATED PROJECT COSTS - GENERAL TASKS  
SVSWA GROUNDWATER MONITORING SERVICES PROPOSAL JULY 2017 TO JUNE 2020

Work Task	Rate	2017						2018												2019												2020						Task	
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	Totals	
		GLA offers this service at no cost to the Authority																																					
Task G1 - Site-Specific Sampling and Analysis Plan		GLA offers this service at no cost to the Authority																																					\$0
		GLA offers this service at no cost to the Authority																																					
Task G2B - Project Health and Safety Plan		GLA offers this service at no cost to the Authority																																					\$0
Task G3 - Monthly Project Status Table																																							
Principal Engineer/Geologist	\$ 200	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	72			
Project Engineer/Geologist	\$ 135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Staff Engineer/Geologist	\$ 100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CADD Draftsman	\$ 110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Word Processor	\$ 87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Field Technician	\$ 87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Labor Total		\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$14,400			
Expenses	2%	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$8	\$288			
Monthly Total		\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$408	\$14,688		
Yearly Task Totals		\$2,448						\$4,896												\$4,896												\$2,448							
GENERAL TASKS TOTAL:		\$14,688																																					

ESTIMATED PROJECT COSTS - GROUNDWATER MONITORING TASKS  
SVSWA GROUNDWATER MONITORING SERVICES PROPOSAL JULY 2017 TO JUNE 2020

Work Task	Rate	2017						2018												2019												2020						Task Totals
		July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	
Task M1 - Crazy Horse Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200	0.5		0.25			0.5			0.25			0.5			0.25			0.5			0.25			0.5			0.25			0.5			0.25			0.5	5
Project Engineer/Geologist	\$ 135																																				0	
Staff Engineer/Geologist	\$ 100	1		1			1			1			1			1			1			1			1			1			1						12	
CADD Draftsman	\$ 110	0																																			0	
Word Processor	\$ 87	0																																			0	
Field Technician	\$ 87	122.5			10			122.5		10				122.5			10			122.5			10			122.5			10	0		122.5			10			795
Labor Total		\$10,858	\$0	\$150	\$870	\$0	\$200	\$10,658	\$0	\$150	\$870	\$0	\$200	\$10,658	\$0	\$150	\$870	\$0	\$200	\$10,658	\$0	\$150	\$870	\$0	\$200	\$10,658	\$0	\$150	\$870	\$0	\$200	\$10,658	\$0	\$150	\$870	\$0	\$100	\$71,365
General Expenses	2%	\$217	\$0	\$5	\$17	\$0	\$4	\$213	\$0	\$3	\$17	\$0	\$4	\$213	\$0	\$3	\$17	\$0	\$4	\$213	\$0	\$3	\$17	\$0	\$4	\$213	\$0	\$3	\$17	\$0	\$4	\$213	\$0	\$3	\$17	\$0	\$2	\$1,429
Vehicle Use	\$ 14	115			8			115			8			115			8			115			8			115			8			115			8			\$10,332
Sampling Equipment	\$ 15	115			8	0		115			8			115			8			115			8			115			8			115			8			\$11,070
Total Expenses		\$3,552	\$0	\$5	\$249	\$0	\$4	\$3,548	\$0	\$3	\$249	\$0	\$4	\$3,548	\$0	\$3	\$249	\$0	\$4	\$3,548	\$0	\$3	\$249	\$0	\$4	\$3,548	\$0	\$3	\$249	\$0	\$4	\$3,548	\$0	\$3	\$249	\$0	\$2	\$22,831
Monthly Total		\$14,410	\$0	\$155	\$1,119	\$0	\$204	\$14,206	\$0	\$153	\$1,119	\$0	\$204	\$14,206	\$0	\$153	\$1,119	\$0	\$204	\$14,206	\$0	\$153	\$1,119	\$0	\$204	\$14,206	\$0	\$153	\$1,119	\$0	\$204	\$14,206	\$0	\$153	\$1,119	\$0	\$102	\$94,196
Yearly Task Totals		\$15,888						\$31,364												\$31,364												\$15,580						
Task M2 - Johnson Canyon Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200		0.25						0.25						0.25					0.25						0.25						0.25					1.5	
Project Engineer/Geologist	\$ 135																																				0	
Staff Engineer/Geologist	\$ 100		1						1						1					1						1						1					6	
CADD Draftsman	\$ 110																																				0	
Word Processor	\$ 87																																				0	
Field Technician	\$ 87			21.0						21.0						21.0						21.0					21.0						21.0				126	
Labor Total		\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$11,862
General Expenses	2%	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$237
Vehicle Use	\$ 14			20						20						20						20					20						20				\$1,680	
Sampling Equipment	\$ 15			18						18						18						18					18						18				\$1,620	
Total Expenses		\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$3,537
Monthly Total		\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$15,399
Yearly Task Totals		\$2,567						\$5,133												\$5,133												\$2,567						
Task M3 - Jolon Road Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200		0.25						0.25						0.25					0.25						0.25						0.25					1.5	
Project Engineer/Geologist	\$ 135																																				0	
Staff Engineer/Geologist	\$ 100		1						1						1					1						1						1					6	
CADD Draftsman	\$ 110																																				0	
Word Processor	\$ 87																																				0	
Field Technician	\$ 87			21.0						21.0						21						21					21.0						21.0				126	
Labor Total		\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$0	\$150	\$1,827	\$0	\$0	\$0	\$11,862
General Expenses	2%	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$0	\$3	\$37	\$0	\$0	\$0	\$237
Vehicle Use	\$ 14			20						20						20						20					20						20				\$1,680	
Sampling Equipment	\$ 15			18						18						18						18					18						18				\$1,620	
Total Expenses		\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$0	\$3	\$587	\$0	\$0	\$0	\$3,537
Monthly Total		\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$0	\$153	\$2,414	\$0	\$0	\$0	\$15,399
Yearly Task Totals		\$2,567						\$5,133												\$5,133												\$2,567						
Task M4 - Lewis Road Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200	0.25					0.25						0.25					0.25						0.25						0.25					0.25		1.75	
Project Engineer/Geologist	\$ 135																																				0	
Staff Engineer/Geologist	\$ 100	1					1						1					1						1						1					1		7	
CADD Draftsman	\$ 110																																				0	
Word Processor	\$ 87																																				0	
Field Technician	\$ 87	24						24						24					24						24						24						144	
Labor Total		\$2,238	\$0	\$0	\$0	\$0	\$150	\$2,088	\$0	\$0	\$0	\$0	\$150	\$2,088	\$0	\$0	\$0	\$0	\$150	\$2,088	\$0	\$0	\$0	\$0	\$150	\$2,088	\$0	\$0	\$0	\$0	\$150	\$2,088	\$0	\$0	\$0	\$0	\$150	\$13,578
General Expenses	2%	\$45	\$0	\$0	\$0	\$0	\$3	\$42	\$0	\$0	\$0	\$0	\$3	\$42	\$0	\$0	\$0	\$0	\$3	\$42	\$0	\$0	\$0	\$0	\$3	\$42	\$0	\$0	\$0	\$0	\$3	\$42	\$0	\$0	\$0	\$3	\$272	
Vehicle Use	\$ 14	21						21					21					21						21						21							\$1,764	
Sampling Equipment	\$ 15	21						21					21					21						21						21							\$1,890	
Total Expenses		\$654	\$0	\$0	\$0	\$0	\$3	\$651	\$0	\$0	\$0	\$0	\$3	\$651	\$0	\$0	\$0	\$0	\$3	\$651	\$0	\$0	\$0	\$0	\$3	\$651	\$0	\$0	\$0	\$0	\$3	\$651	\$0	\$0	\$0	\$3	\$3,926	
Monthly Total		\$2,892	\$0	\$0	\$0	\$0	\$153	\$2,739																														

ESTIMATED PROJECT COSTS - GROUNDWATER REPORTING TASKS  
SVSWA GROUNDWATER MONITORING SERVICES PROPOSAL JULY 2017 TO JUNE 2020

Work Task	Rate	2017						2018												2019												2020						Task Totals
		July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	April	May	June	
Task R1 - Crazy Horse Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200	1		0.5			0.5	1		0.5			0.5	1		0.5			0.5	1		0.5			0.5	1		0.5			0.5	1		0.5			0.5	12
Project Engineer/Geologist	\$ 135	6		1			1	6		1			1	6		1			1	6		1			1	6		1			1	6		1			1	48
Staff Engineer/Geologist	\$ 100	40		6			6	42		6			6	40		6			6	42		6			6	40		6			6	42		6			6	318
CADD Draftsman	\$ 110	3					7.5						7.5						7.5						7.5					7.5						7.5	48	
Word Processor	\$ 87	21	4			4	21		4			4	21		4			4	21		4			4	21		4			4	21		4			4	21	195
Field Technician	\$ 87																																				0	
Labor Total		\$7,167	\$348	\$835	\$0	\$348	\$3,487	\$5,210	\$348	\$835	\$0	\$348	\$3,487	\$5,010	\$348	\$835	\$0	\$348	\$3,487	\$5,210	\$348	\$835	\$0	\$348	\$3,487	\$5,010	\$348	\$835	\$0	\$348	\$3,487	\$5,210	\$348	\$835	\$0	\$348	\$3,487	\$62,925
General Expenses	2%	\$143	\$7	\$17	\$0	\$7	\$70	\$104	\$7	\$17	\$0	\$7	\$70	\$100	\$7	\$17	\$0	\$7	\$70	\$104	\$7	\$17	\$0	\$7	\$70	\$100	\$7	\$17	\$0	\$7	\$70	\$104	\$7	\$17	\$0	\$7	\$70	\$1,259
Monthly Total		\$7,310	\$355	\$852	\$0	\$355	\$3,557	\$5,314	\$355	\$852	\$0	\$355	\$3,557	\$5,110	\$355	\$852	\$0	\$355	\$3,557	\$5,314	\$355	\$852	\$0	\$355	\$3,557	\$5,110	\$355	\$852	\$0	\$355	\$3,557	\$5,314	\$355	\$852	\$0	\$355	\$3,557	\$64,184
Yearly Task Totals		\$12,429						\$20,661												\$20,661												\$10,433						
Task R2 - Johnson Canyon Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200		1						1						1					1						1					1						6	
Project Engineer/Geologist	\$ 135		1.5				0.5		1.5				0.5		1.5				0.5		1.5				0.5		1.5			0.5		1.5				0.5	12	
Staff Engineer/Geologist	\$ 100	12	4				4	12	4				4	12	4				4	12	4				4	12	4			4	12	4				4	120	
CADD Draftsman	\$ 110	2						2						2					2						2					2							12	
Word Processor	\$ 87	5.5	1				5.5		1				5.5		1				5.5		1				5.5		1			5.5		1				6	45	
Field Technician	\$ 87																																				0	
Labor Total		\$1,899	\$890	\$0	\$0	\$0	\$946	\$1,420	\$890	\$0	\$0	\$0	\$946	\$1,420	\$890	\$0	\$0	\$0	\$946	\$1,420	\$890	\$0	\$0	\$0	\$946	\$1,420	\$890	\$0	\$0	\$0	\$946	\$1,420	\$890	\$0	\$0	\$0	\$990	\$20,055
General Expenses	2%	\$38	\$18	\$0	\$0	\$0	\$19	\$28	\$18	\$0	\$0	\$0	\$19	\$28	\$18	\$0	\$0	\$0	\$19	\$28	\$18	\$0	\$0	\$0	\$19	\$28	\$18	\$0	\$0	\$0	\$19	\$28	\$18	\$0	\$0	\$0	\$20	\$401
Monthly Total		\$1,936	\$907	\$0	\$0	\$0	\$965	\$1,448	\$907	\$0	\$0	\$0	\$965	\$1,448	\$907	\$0	\$0	\$0	\$965	\$1,448	\$907	\$0	\$0	\$0	\$965	\$1,448	\$907	\$0	\$0	\$0	\$965	\$1,448	\$907	\$0	\$0	\$0	\$1,009	\$20,456
Yearly Task Totals		\$3,809						\$6,641												\$6,641												\$3,365						
Task R3 - Jolon Road Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200			1						1					1						1						1										6	
Project Engineer/Geologist	\$ 135	0.5		1.5				0.5		1.5				0.5		1.5			0.5		1.5				0.5		1.5			0.5		1.5				0.5	12	
Staff Engineer/Geologist	\$ 100	2	12	6					14	6					14	6				14	6					14	6				14	6					120	
CADD Draftsman	\$ 110	2							2						2					2						2					2						12	
Word Processor	\$ 87	5.5		2					5.5	2					5.5	2				5.5	2					5.5	2				5.5	2					45	
Field Technician	\$ 87																																				0	
Labor Total		\$966	\$1,200	\$1,177	\$0	\$0	\$0	\$68	\$2,099	\$1,177	\$0	\$0	\$0	\$68	\$2,099	\$1,177	\$0	\$0	\$0	\$68	\$2,099	\$1,177	\$0	\$0	\$0	\$68	\$2,099	\$1,177	\$0	\$0	\$0	\$68	\$2,099	\$1,177	\$0	\$0	\$0	\$20,055
General Expenses	2%	\$19	\$24	\$24	\$0	\$0	\$0	\$1	\$42	\$24	\$0	\$0	\$0	\$1	\$42	\$24	\$0	\$0	\$0	\$1	\$42	\$24	\$0	\$0	\$0	\$1	\$42	\$24	\$0	\$0	\$0	\$1	\$42	\$24	\$0	\$0	\$0	\$401
Monthly Total		\$985	\$1,224	\$1,200	\$0	\$0	\$0	\$69	\$2,140	\$1,200	\$0	\$0	\$0	\$69	\$2,140	\$1,200	\$0	\$0	\$0	\$69	\$2,140	\$1,200	\$0	\$0	\$0	\$69	\$2,140	\$1,200	\$0	\$0	\$0	\$69	\$2,140	\$1,200	\$0	\$0	\$0	\$20,456
Yearly Task Totals		\$3,409						\$6,819												\$6,819												\$3,409						
Task R4 - Lewis Road Sanitary Landfill																																						
Principal Engineer/Geologist	\$ 200	1						1						1					1						1					1							6	
Project Engineer/Geologist	\$ 135	1.5		0.5				1.5		0.5				1.5		0.5			1.5		0.5				1.5		0.5			1.5		0.5					12	
Staff Engineer/Geologist	\$ 100	20					14	6					14	6				14	6					14	6				14	6					14	134		
CADD Draftsman	\$ 110						2						2					2						2					2							2	12	
Word Processor	\$ 87	2		5.5				2		5.5				2		5.5			2		5.5				2		5.5			2		5.5					45	
Field Technician	\$ 87																																				0	
Labor Total		\$2,577	\$0	\$546	\$0	\$0	\$1,620	\$1,177	\$0	\$546	\$0	\$0	\$1,620	\$1,177	\$0	\$546	\$0	\$0	\$1,620	\$1,177	\$0	\$546	\$0	\$0	\$1,620	\$1,177	\$0	\$546	\$0	\$0	\$1,620	\$1,177	\$0	\$546	\$0	\$0	\$1,620	\$21,455
General Expenses	2%	\$52	\$0	\$11	\$0	\$0	\$32	\$24	\$0	\$11	\$0	\$0	\$32	\$24	\$0	\$11	\$0	\$0	\$32	\$24	\$0	\$11	\$0	\$0	\$32	\$24	\$0	\$11	\$0	\$0	\$32	\$24	\$0	\$11	\$0	\$0	\$32	\$429
Monthly Total		\$2,628	\$0	\$557	\$0	\$0	\$1,652	\$1,200	\$0	\$557	\$0	\$0	\$1,652	\$1,200	\$0	\$557	\$0	\$0	\$1,652	\$1,200	\$0	\$557	\$0	\$0	\$1,652	\$1,200	\$0	\$557	\$0	\$0	\$1,652	\$1,200	\$0	\$557	\$0	\$0	\$1,652	\$21,884
Yearly Task Totals		\$4,837						\$6,819												\$6,819												\$3,409						
GROUNDWATER REPORTING TASKS TOTAL:		\$126,980																																				



## 2017 FEE SCHEDULE – Salinas Valley Solid Waste Authority Projects

(Rates in **Blue** are assigned to Routine Services Projects)

<b>PROFESSIONAL STAFF</b>	<b>UNIT RATE</b>
<b>Staff Professional I</b> .....	<b>\$100.00/Hour</b>
Staff Professional II .....	110.00/Hour
Staff Professional III .....	120.00/Hour
<b>Project Professional I</b> .....	<b>135.00/Hour</b>
Project Professional II .....	155.00/Hour
Project Professional III .....	175.00/Hour
Senior Professional I .....	187.00/Hour
<b>Supervising Professional/Senior Professional II/Principal Professional I</b> .....	<b>200.00/Hour</b>
Principal Professional II .....	250.00/Hour
Court Appearance (Expert Witness, Deposition, etc.; four-hour minimum) .....	2 x HourlyRate

<b>FIELD/LABORATORY STAFF</b>	
Technician I .....	78.00/Hour
<b>Technician II</b> .....	<b>87.00/Hour</b>
Technician III (or Minimum Prevailing Wage) .....	97.00/Hour
Technician IV .....	130.00/Hour
Laboratory Manager .....	145.00/Hour
Principal Technician .....	155.00/Hour

<b>CADD/GIS</b>	
CADD/GIS/Database Manager I .....	95.00/Hour
<b>CADD/GIS/Database Manager II</b> .....	<b>110.00/Hour</b>
CADD Designer .....	120.00/Hour
GIS Specialist .....	135.00/Hour

<b>SUPPORT STAFF</b>	
Administrative Assistant I .....	75.00/Hour
<b>Administrative Assistant II</b> .....	<b>87.00/Hour</b>
Technical Editor .....	95.00/Hour
Senior Technical Editor .....	120.00/Hour

\*Overtime Premium is 35% of PERSONNEL CHARGE

<b>EQUIPMENT CHARGES</b>	
BAT Permeameter .....	200.00/Day
Compaction Testing Equipment & Supplies .....	50.00/Day
Peel & Shear Strength Apparatus (FML Seams) .....	900.00/Month
Portable Laboratory (8' x 32' trailer) with equipment .....	1,200/Month
Portable Laboratory (mobilization / demobilization) .....	1,500.00
ReMi/Refraction Seismograph .....	600.00/Day
Sealed Single Ring Infiltrometer (SSRI) .....	200.00/Day or 750.00/Month
Sealed Double Ring Infiltrometer (SDRI) .....	Call for Quote
Slope Inclinator .....	250.00/Day

<b>EXPENSES</b>	
<b>Vehicle Use for Field Services</b> .....	<b>14.00/Hour or 320.00/week</b>
Soil Sampling Equipment & Drilling Supplies .....	5.00/Hour
<b>Groundwater Sampling Equipment and Supplies</b> .....	<b>15.00/Hour</b>
Per Diem .....	Lesser of (Cost +15%) or (Local Government Rate)
Outside Services (Consultants, Surveys, Chemical lab Tests, etc.) .....	Cost + 15%
Reimbursables (Maps, Photos, Permits, Expendable Supplies, etc.) .....	Cost + 15%
Outside Equipment (Drill Rig, Backhoe, Monitoring Equipment, etc.) .....	Cost + 15%

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**PERMITS, FEES AND BONDS**

The costs of all permits, fees, and performance bonds required by government agencies are to be paid by the Client, unless stated otherwise in an accompanying proposal.

**INSURANCE**

Geo-Logic Associates, Inc. carries workers' compensation, comprehensive general liability and automobile with policy limits normally acceptable to most clients. The cost for this insurance is covered by the fees listed in this schedule. Cost of any special insurance required by the Client, including increases in policy limits, adding additional insured parties and waivers of subrogation, are charged at cost plus 15%. Unless otherwise stated, such charges are in addition to the estimated or maximum charges stated in any accompanying proposal.

**TERMS**

Payment is due upon presentation of invoice and is past due thirty (30) days from invoice date. Past due accounts are subject to a finance charge of one and one-half percent (1-1/2%) per month, or the maximum rate allowed by law.

**PROPOSAL PERIOD**

Unless otherwise stated, a proposal accompanying this schedule is effective for sixty (60) days. If authorization to proceed is not received within this period, Geo-Logic Associates, Inc. reserves the right to renegotiate the fee.

## 2017 FEE SCHEDULE – Salinas Valley Solid Waste Authority Projects

<u>SOIL TESTING</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
Atterberg Limits (LL, PL, and PI) .....	D4318 .....	\$150.00/Test
California Bearing Ratio (excluding moisture-density curve) .....	D1883 .....	250.00/Point
Chloride Content .....		50.00/Test
Corrosivity Series (resistivity, pH, sulfate, chloride) .....		170.00/Test
Consolidation Test (without rate data – up to 8 loading increments).....	D2435 .....	150.00/Test
Consolidation Test (single point) .....	D2435 .....	95.00/Test
Consolidation Test Rate Data (per load increment) .....	D2435 .....	60.00/each
Direct Shear Test (at natural moisture) .....	D3080 .....	65.00/Point
Direct Shear Test (saturated – strain rate 0.0084 inch/min.) .....	D3080 .....	75.00/Point
Direct Shear Test (saturated, recycled – strain rate 0.0084 inch/min.)....	D3080 .....	120.00/Point
Direct Shear Test (consolidated drained) .....	D3080 .....	175.00/Point
Direct Shear Test (consolidated drained, residual).....	D3080 .....	200.00/Point
Direct Shear Test (large shear box, 12 x 12) .....	D3080 .....	300.00/Point
Expansion Index Test .....	D4829 .....	125.00/Test
Expansion Index (cement or lime treated sample).....	D4829 .....	175.00/Test
Grain-Size Mechanical Analysis - Sand-Clay, including Hydrometer.....	D422/D6913/D7928 ....	150.00/Test
Grain-Size Mechanical Analysis - Gravel-Clay, including Hydrometer .....	D422/D6913/D7928 ....	200.00/Test
Harvard Miniature Compaction Test .....		250.00/Test
Mechanical Analysis, Percent Passing #200.....	D1140/C117 .....	75.00/Test
Mechanical Analysis - Sand or Gravel (no wash) .....	D422/D6913/C136.....	85.00/Test
Mechanical Analysis - Sand and Gravel .....	D422/D6913/C136.....	155.00/Test
Mechanical Analysis - Sand or Gravel .....	D422/D6913/C136.....	120.00/Test
Mechanical Analysis - Minus 3" to 200 Sieve, Full Sieve .....	D422/D6913/C136.....	155.00/Test
Moisture Content .....	D2216/D4643 .....	16.00/Test
Moisture Density Curve for Compacted Fill (4-inch Mold) .....	D698 .....	150.00/Test
Moisture Density Curve for Compacted Fill (6-inch Mold) .....	D698 .....	175.00/Test
Moisture-Density Curve for Compacted Fill (4-inch Mold).....	D1557 .....	165.00/Test
Moisture-Density Curve – Compacted Fill (6-inch Mold).....	D1557 .....	200.00/Test
Moisture-Density Curve – Lime or Cement Treated (4-inch Mold) .....	D1557 .....	210.00/Test
Moisture-Density Curve – Lime or Cement Treated (6-inch Mold) .....	D1557 .....	250.00/Test
Moisture-Density Single Point .....	T272 .....	80.00/Test
Moisture-Density Curve.....	Cal 216.....	175.00/Test
Organic Matter .....	D2974 .....	85.00/Test
Permeability (falling head) .....	CAL220 .....	180.00/Test
Permeability (flexible wall) .....	D5084 .....	300.00/Test
Permeability (rigid wall - constant head pressure, 2" to 8" mold) .....	D2434 .....	300.00/Test
Permeability (rigid wall - constant head pressure, 12" mold) .....	D2434 .....	460.00/Test
Permeability (additional consolidation stresses).....		95.00/stage
Permeability (air) .....	D6539 .....	325.00/Test
Pinhole Dispersion Test; 4 increments (remold sample) .....	D4647 .....	400.00/Test
Resistance Value.....	D2844 .....	210.00/Test
Resistance Value – Lime or Cement Treated .....	D2844/CA301 .....	260.00/Test
Resistivity & pH Test .....	Cal 532 or 643 .....	90.00/Test
Sand Equivalent .....	Caltrans 217/D2419.....	75.00/Test
Soil pH.....	D4972 .....	20.00/Test
Specific Gravity - Fine-Grained Soils .....	D854 .....	75.00/Test
Sulfate Content.....		50.00/Test

*<continued on next page>*

<b><u>SOIL TESTING (continued)</u></b>	<b><u>TEST METHOD</u></b>	<b><u>UNIT RATE</u></b>
Triaxial Compression Test (CD) .....	D7181 .....	575.00/Point
Triaxial Compression Test (CU with pore pressure).....	D4767 .....	425.00/Point
Triaxial Compression Test (UU).....	D2850 .....	125.00/Test
Triaxial Compression Test [Stage (Progressive) Test; CU] .....	D4767 .....	1,000.00/Set
Unconfined Compression Test (undisturbed sample) .....	D2166 .....	90.00/Test
Unit Dry Weight and Moisture Content (undisturbed sample) .....	D7263/D2216 .....	22.00/Test

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.

## 2017 FEE SCHEDULE - – Salinas Valley Solid Waste Authority Projects

<b><u>AGGREGATE TESTING</u></b>	<b><u>TEST METHOD</u></b>	<b><u>UNIT RATE</u></b>
Clay Lumps and Friable Particles .....	C142 .....	\$80.00/Test
Crushed Particles (Fractured Faces) .....		95.00/Test
Durability Index – Fine.....	D3744 .....	120.00/Test
Durability Index – Coarse.....	D3744 .....	140.00/Test
Flat and Elongated Particles .....	CRD119, 120 .....	105.00/Test
Injurious Organic Matter .....	C40 .....	60.00/Test
Insoluble Residue in Carbonate Aggregates .....	D3042 .....	275.00/Test
Lightweight Pieces in Aggregate.....	C123 .....	95.00/Test
Los Angeles Abrasion Test (500 revolutions).....	C131 .....	160.00/Test
Los Angeles Abrasion Test (1000 revolutions).....	C535 .....	180.00/Test
Mechanical Analysis - Sand or Gravel (dry sieve) .....	C136 .....	70.00/Test
Mechanical Analysis (wash 200 sieve).....	C117 .....	65.00/Test
Mechanical Analysis (fine with wash 200 sieve).....	C136 .....	100.00/Test
Rapid Determination of Carbonate Content of Rock.....	4373.....	120.00/Test
Sample Crushing .....		85.00/Hour
Sand Equivalent .....	D2419 .....	75.00/Test
Specific Gravity, Bulk, SSD with Absorption .....	C128/C127 .....	110.00 Each
Sulfate Soundness, per sieve size .....	C88 .....	135.00/Test

<b><u>ROCK TESTING</u></b>	<b><u>TEST METHOD</u></b>	<b><u>UNIT RATE</u></b>
Density.....	D7263 .....	\$35.00/Test
Density, Porosity, Specific Gravity, Water Content .....		110.00/Test
Indirect Tensile Strength (Brazilian), Single Break.....	D3967 .....	55.00/Test
Indirect Tensile Strength (Brazilian), 10-15 Breaks.....	D3967 .....	210.00/Test
Point Load Index, Single Break .....	D5731 .....	35.00/Test
Point Load Index, 10-15 Breaks .....	D5731 .....	180.00/Test
Rip-Rap (wet / dry, 10 cycles).....	D5318.....	1,000.00/Test
Rip-Rap (freeze / thaw, 10 cycles) .....	D5312 .....	800.00/Test
Rip-Rap (specific gravity) .....	D6473 .....	110.00/Test
Rip-Rap Soundness (sodium) .....	D5240 .....	400.00/Test
Rock Joint Direct Shear.....		260.00/Point
Rock Joint Direct Shear, additional normal load .....		95.00/Test
Slake Durability.....	D4644 .....	200.00/Test
Triaxial Compression, with Young's modulus and Poisson's ratio .....		495.00/point
Uniaxial Strength (peak only; 2.5" maximum).....	D7012 .....	130.00/Test
Uniaxial Strength (with stress-strain curve).....		call for quote
Uniaxial Strength (with stress-strain curve, add modulus and Poisson ratio).....		call for quote
Rock preparation, cutting, and grinding.....		85.00/Hour

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.



## 2017 FEE SCHEDULE – Salinas Valley Solid Waste Authority Projects

<u>GEOSYNTHETIC MATERIALS</u>	<u>TEST METHOD</u>	<u>UNIT RATE</u>
<b><i>Seam Coupon Series (thickness, peel, and shear)</i></b>		
Set of 5 each (Quantity 1-10).....	D6392 .....	\$75.00/Test
Set of 5 each (Quantity 10 or more) .....	D6392 .....	55.00/Test
Asperity Height.....	GRI GM12 .....	35.00/Test
Liner Puncture Testing up to 350 psi .....		260.00/Test
Liner Puncture Testing over 350 psi .....		410.00/Test
<b><i>Large Scale Direct Shear (ASTM D5321 and D6321)</i></b>		
Geosynthetic vs Geosynthetic – Method A .....		210.00/Point
Soil vs Geosynthetic Friction – Method B .....		260.00/Point
GCL Internal Shear .....		310.00/Point
Shear Speed (<0.04).....		110.00/Point
(Shear rate dependent on soil drainage characteristics and engineering specifications)		
Substrate Remolding Fee.....		60.00/Test
Additional Saturation Time (>24 hours) .....		60.00/Day
<b><i>GCL Testing</i></b>		
Index Flux Testing .....	D5887 .....	270.00/Test
Fluid Loss .....	D5891 .....	75.00/Test
Swell Index.....	D5890 .....	70.00/Test
Mass per Unit Area .....	D5993 .....	70.00/Sample
Custom Liner Testing .....		call for quote

All test methods are ASTM unless otherwise noted.

Special sample preparation and laboratory testing not listed above will be charged at applicable personnel rates.

All laboratory test rates are for standard turn-around time and normal reporting procedures. Rush orders will be subject to a 25 percent premium. Manpower requirements or test protocol may preclude the granting of a rush request.

## 2017 FEE SCHEDULE – Salinas Valley Solid Waste Authority Projects

### **MOISTURE RETENTION TESTING** **TEST METHOD** **UNIT RATE**

#### ***Hydraulic Properties Package (HPP)***

Saturated Hydraulic Conductivity (choose one):

Flexible-Wall Method, 1" - 4" .....	D5084 .....	\$815.00/Pkg.
Flexible-Wall Method, 6" .....	D5084 .....	\$1,280.00/Pkg.
Rigid-Wall Method, 1" - 6" .....	D2434M/5856M .....	\$615.00/Pkg.
Rigid-Wall Method, 8" .....	D2434M/5856M .....	\$815.00/Pkg.
Rigid-Wall Method, 12" .....	D2434M/5856M .....	\$1,280.00/Pkg.

The Hydraulic Properties Package also includes:

Moisture Content, Bulk Density, Total Porosity (Pkg.) .....	D2216/D7263
5-7 Point Soil-Water Characteristic Curve, Wetting or Drying .....	D6836M/MOSA <sup>1</sup>
Calculated Unsaturated Hydraulic Conductivity .....	van Genuchten <sup>2,3</sup>
van Genuchten Modeling Parameters .....	van Genuchten <sup>2,3</sup>

#### ***Additional Moisture Retention Points, When HPP is Also Performed***

Hanging Column Method .....	D6836M .....	\$50.00/Point
Pressure Plate Method .....	D6836 .....	\$50.00/Point
Chilled Mirror Hygrometer (Dewpoint Potentiometer) Method .....	D6836 .....	\$50.00/Point
Filter Paper Method .....	D5298 .....	\$100.00/Point
Relative Humidity Chamber Method .....	MOSA <sup>1</sup> .....	\$50.00/Point

#### ***Soil-Water Characteristic Indices, Including: Moisture Content, Bulk Density, Total Porosity***

Effective Porosity (Total porosity - 15 Bar Point) .....	Stephens <sup>4</sup> .....	\$195.00/Test
Field Capacity (1/3 Bar Point) .....	Stephens <sup>5</sup> .....	\$195.00/Test
Permanent Wilting Point (15 Bar Point) .....	Stephens <sup>5</sup> .....	\$195.00/Test
Plant Available Water (15 Bar Point - 1/3 Bar Point) .....	Stephens <sup>5</sup> .....	\$240.00/Test
Specific Yield (Total Porosity - Residual Moisture) .....	MOSA <sup>1</sup> .....	\$135.00/Test
Water Holding Capacity (15 Bar Point - 1/3 Bar Point) .....	Stephens <sup>5</sup> .....	\$240.00/Test

#### ***As Received Soil-Water Potential, Including: Moisture Content, Bulk Density, Total Porosity***

Total Potential, by Chilled Mirror Hygrometer Method .....	D6836 .....	\$140.00/Test
Total and Matric Potential, by Filter Paper Method .....	D5298 .....	\$190.00/Test

All test methods are ASTM unless otherwise noted. M indicates modified apparatus.

Special sample preparation and lab testing not listed above will be charged at applicable personnel rates.

#### ***Note (Moisture Retention Testing)***

The Soil-Water Characteristic Curve (SWCC) is also commonly referred to as: Moisture Retention Characteristic Curve (MRCC), Moisture Characteristic Curve (MCC), Moisture Retention Curve (MRC), Soil Wetting Curve (SWC), Soil Drying Curve (SDC), Theta-Psi Curve, or Pressure Potential vs. Moisture Content. The HPP provides input parameters for most flow models, including Hydrus, UNSAT-H and LEACH-M.

#### ***References (Moisture Retention Testing)***

- <sup>1</sup> Klute, A. and C. Dirksen. 1986. In: A. Klute (ed.), Methods of Soil Analysis, American Society of Agronomy, Madison, WI
- <sup>2</sup> van Genuchten, M.T. 1980. A closed-form equation for predicting the hydraulic conductivity of unsaturated soils. SSSAJ 44:892-899.
- <sup>3</sup> van Genuchten, M.T., F.J. Leij, and S.R. Yates. 1991. The RETC code for quantifying the hydraulic functions of unsaturated soils. Robert S. Kerr Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Ada, Oklahoma. EPA/600/2091/065.
- <sup>4</sup> Stephens, D.B., 1997, A Comparison of Estimated and Calculated Effective Porosity, *Hydrology* 6:6156-165
- <sup>5</sup> Stephens, D. B. 1996, pp.11-12, Vadose Zone Hydrology. CRC Press, Inc., Boca Raton, FL.



## Report to the Board of Directors

ITEM NO. 8

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

General Counsel

Date: June 15, 2017

From: Ray Hendricks, Finance Manager

Title: A Resolution Establishing the Investment Policy

### RECOMMENDATION

The Executive Committee recommends adoption of the resolution.

### STRATEGIC PLAN RELATIONSHIP

The recommended action is routine in nature. However, it does continue to support the previous goal to Develop and Implement a Sustainable Finance Plan by ensuring that the Authority's monies are invested accordance with State law and sound investment practices.

### FISCAL IMPACT

Due to the current state of the economy investment returns are still low. Interest earnings are no longer a significant part of the Authority's budget. By becoming a more active, but still conservative, participant in the investment market, the Authority should net modestly higher yields resulting in more revenue for the Authority.

### DISCUSSION & ANALYSIS

The investment policy has no changes from the current policy. The Investment Policy allows investment in all investment vehicles permitted by State law. However, in actual practice the funds managed by the Treasurer have historically been invested in the Local Agency Investment Fund (LAIF).

LAIF interest dropped as low as .228% in May 2014. In order to increase returns, staff diversified its investments by investing in collateralized Certificates of Deposit with yields higher than the LAIF rate. Since then, LAIF returns have slowly improved. At the end of April 2017, LAIF was yielding 0.884%. The is higher than the return on the Certificates of Deposits which expire in June 2017. Staff will continue to look for higher yielding investment opportunities that meet the criteria of Safety, Liquidity, and Yield in that order. If investments that meet that criteria are not available, the investments will be added to LAIF.

### BACKGROUND

In order to properly handle the Authority's investments, the Board is asked to adopt the attached Investment Policy. California Government Code Section 53646(a) (2) states that the treasurer or chief fiscal officer of a local agency may render annually to the legislative body of the local agency an investment policy, which the legislative body shall consider at a public meeting. State law further requires the Treasurer or Chief Financial Officer to submit detailed information on all securities, investments, and monies of the Authority on a quarterly basis. The next report is due in July 2017.

### ATTACHMENT(S)

1. Resolution
2. Investment Policy

RESOLUTION NO. 2017 -

A RESOLUTION OF THE SALINAS VALLEY SOLID WASTE AUTHORITY  
ESTABLISHING THE INVESTMENT POLICY

WHEREAS the legislative body of a local agency may invest surplus monies not required for the immediate necessities of the local agency in accordance with the provisions of California Government Code Sections 5921 and 53630 et seq.; and

WHEREAS the Legislature of the State of California has declared that the deposit and investment of public funds by local officials and local agencies is an issue of statewide concern and has passed legislation to restrict permissible investments and promote oversight procedures; and

WHEREAS it is necessary to establish the policy and guidelines for the Authority to invest public funds in a manner which will provide a high level of safety and security of principal; and

WHEREAS the Finance Manager/Treasurer of Salinas Valley Solid Waste Authority shall annually prepare and submit a statement of investment policy and such policy, and any changes thereto, shall be considered by the legislative body at a public meeting; and

WHEREAS the Authority's Investment Policy has been developed and presented to this Board on June 15, 2017.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Salinas Valley Solid Waste Authority that it does hereby adopt the attached Investment Policy, marked "Exhibit A," and authorizes and directs the Finance Manager/Treasurer to use said Policy in the investment of Authority funds.

PASSED AND ADOPTED by the Board of Directors of the Salinas Valley Solid Waste Authority at the regular meeting duly held on the 15<sup>th</sup> day of June 2017 by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

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Simón Salinas, President

ATTEST:

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Erika J. Trujillo, Clerk of the Board

## **SALINAS VALLEY SOLID WASTE AUTHORITY INVESTMENT POLICY**

### **PURPOSE**

The purpose of this document is to identify various policies and procedures that enhance opportunities for a prudent and systematic investment process and to organize and formalize investment-related activities. Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion, and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived. The ultimate goal is to enhance the economic status of the Authority while protecting its invested cash.

The investment policies and practices of the Salinas Valley Solid Waste Authority are based on state law and prudent money management. All funds will be invested in accordance with the Authority's Investment Policy and the authority governing investments for local governments as set forth in the California Government Code, Sections 53601 through 53686. The provisions of relevant bond documents restrict the investments of bond proceeds.

### **OBJECTIVE**

The Authority has a fiduciary responsibility to maximize the productive use of all the assets entrusted to its care and to invest and wisely and prudently manage those public funds. As such, the Authority shall strive to maintain the level of investment of all idle funds as near 100% as possible through daily and projected cash flow determinations, investing in those investment vehicles deemed prudent and allowable under current legislation of the State of California and the ordinances and resolutions of the Salinas Valley Solid Waste Authority.

### **SCOPE**

It is intended that this policy cover all funds and investment activities of the Salinas Valley Solid Waste Authority. This investment policy applies to all Authority transactions involving the financial assets and related activity of all funds. Any additional funds that may be created from time to time shall also be administered with the provisions of this policy and comply with current State Government Code.

The Authority will consolidate cash and reserve balances from all funds to maximize investment earnings and to increase efficiencies with regard to investment pricing, safekeeping, and administration. Investment income will be allocated to the various funds based on their respective participation and in accordance with generally accepted accounting principles.

### **AUTHORIZATION**

The Board of Directors has delegated investment authority to the Finance Manager/Treasurer. This delegation is further authorized by Section 53600, et seq. of the Government Code of the State of California, which specifies the various permissible investment vehicles, collateralization levels, portfolio limits, and reporting requirements.

## **GUIDELINES**

Government Code Section 53600.5 states: “When investing, reinvesting, purchasing, acquiring, exchanging, selling and managing public funds, the primary objective of the trustee shall be to safeguard the principal of funds under its control. The secondary objective shall be to meet the liquidity needs of the depositor. The third objective shall be to achieve a return on the funds under its control.”

Simply stated, *safety of principal* is the foremost objective, followed by *liquidity* and *return on investment* (known as yield). Each investment transaction shall seek to first ensure that capital losses are avoided, whether they are from market erosion or security defaults.

1. Government Code Section 53601 authorizes the following investment vehicles:

<u>Permitted Investments/Deposits</u>	<u>Maximum Percentages of Portfolio</u>	<u>Maximum Maturity</u>	<u>Minimum Quality Requirements</u>
U.S. Treasury Obligations	Unlimited	5 Years*	None
U.S. Agencies Obligations <sup>(g)</sup>	Unlimited	5 Years*	None
Certificates of Deposit	Unlimited	5 Years*	None
Negotiable Certificates	30%	5 Years*	None
Bankers Acceptances	40% <sup>b</sup>	180 Days	None
Commercial Paper	25% <sup>c</sup>	270 Days	A-1/P-1/F-1
L.A.I.F.	40 Million <sup>a</sup>	N/A	None
CalTRUST Investment Pool <sup>(h)</sup>	Unlimited	N/A	None
Repurchase Agreements	Unlimited	1 Year	None
Reverse Repurchase Agreements	20%	92 Days	None
Mutual Funds and Money Market			
Mutual Funds	20%	n/a	Multiple <sup>d, e</sup>
Medium Term Notes <sup>f</sup>	30%	5 Years*	“A” rating

\*Maximum term unless expressly authorized by Governing Body and within the prescribed time frame for said approval

(a) Limit set by LAIF Governing Board, not the Government Code.

(b) No more than 30 percent of the agency’s money may be in Bankers’ Acceptances of any one commercial bank.

(c) 10 percent of the outstanding commercial paper of any single corporate issuer.

(d) A mutual fund must receive the highest ranking by not less than two nationally recognized rating agencies or the fund must retain an investment advisor who is registered with the SEC (or exempt from registration), has assets under management in excess of \$500 million, and has at least five years experience investing in instruments authorized by Government Code sections 53601 and 53635.

(e) A money market mutual fund must receive the highest ranking by not less than two nationally recognized statistical rating organizations or retain an investment advisor registered with the SEC or exempt from registration and who has not less than five years experience

investing in money market instruments with assets under management in excess of \$500 million.

(f) "Medium-term notes" are defined in Government Code Section 53601 as "all corporate and depository institution debt securities with a maximum remaining maturity of five years or less, issued by corporations organized and operating with the U.S. or by depository institutions licensed by the U.S. or any state and operating within the U.S."

(g) Includes U.S. Government Sponsored Enterprise Obligations

(h) Investment Trust of California dba CalTRUST

2. Criteria for selecting investments, and the order of priority, are:

A) Safety. The safety and risk associated with an investment refers to the potential loss of principal, interest or a combination of these amounts. Investments of the Salinas Valley Solid Waste Authority shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. To attain this objective, diversification is required in order that potential losses on individual securities do not exceed the income generated from the remainder of the portfolio. The Authority only invests in those instruments that are considered very safe.

B) Liquidity. This refers to the ability to "cash in" at any moment with a minimal chance of losing some portion of principal or interest. Liquidity is an important investment quality especially when the unexpected need for funds occurs. The Salinas Valley Solid Waste Authority investment portfolio will remain sufficiently liquid to enable the Authority to meet all operating requirements, which might be reasonably anticipated. It is the Authority's full intent, at the time of purchase, to hold all investments until maturity to ensure the return of all invested principal dollars.

C) Yield. Yield is the potential dollar earnings an investment can provide, and sometimes is described as the rate of return. The Salinas Valley Solid Waste Authority investment portfolio shall be designed with the objective of attaining a market rate of return throughout budgetary and economic cycles, taking into account the Authority's investment risk constraints and the cash flow characteristics of the portfolio.

3. An amount of money deemed sufficient to meet one payroll and two weeks claims shall be maintained in highly liquid investment vehicles such as the State Local Agency Investment Fund, or other similar investment instrument
4. The Authority will attempt to obtain the highest yield obtainable when selecting investments, provided that criteria for safety and liquidity are met. Ordinarily, through a positive yield curve, (i.e., longer term investment rates are higher than those of shorter maturities), the Authority attempts to ladder its maturities to meet anticipated cash maturities that carry a higher rate than is available in the extremely short market of 30 days or less.
5. Most investments are highly liquid, with the exception of certificates of deposit held by banks and savings and loans. Investments in Certificate of Deposit shall be fully insured or collateralized. When insurance is pledged, it shall be through the FDIC. Collateralization shall be in the amount of 110% of principal when government securities are pledged or 150% of principal when backed

by first deeds of trust. Maturities are selected to anticipate cash needs, thereby obviating the need for forced liquidation.

6. When investing in Bankers Acceptances, Treasury Bills and Notes, Government Agency Securities and Commercial Paper, securities for these investments shall be conducted on a delivery-versus-payment basis. Securities are held by a third party custodian designated by the Treasurer and evidenced by safekeeping receipts when such delivery directly to the Authority would be impractical.
7. With the exception of Treasury Notes and other government Agency Issues, the maturity of any given investment shall not exceed 1 year.
8. Bond Proceeds shall include any notes, bonds or other instruments issued on behalf of the Salinas Valley Solid Waste Authority for which the members of the Board of Directors serve as the governing body. Should the Salinas Valley Solid Waste Authority elect to issue bonds for any purpose, the Indenture of Trust shall be the governing document specifying allowable investments for the proceeds of the issue as prescribed by law.
9. Investment income shall be shared by all funds on a proportionate ratio of each funds balance to total pooled cash with investment income distributed accordingly on a quarterly basis.
10. Investments in any other vehicle like Repurchase and Reverse Repurchase Agreements shall not be authorized unless the investment is made through the pooled money portfolio of the Local Agency Investment Fund.
11. The Treasurer shall annually render to the Board of Directors for consideration at a public meeting, a statement of investment policy. The Treasurer will also render an investment report to the Board of Directors within 30 days following the end of each calendar quarter. The monthly report shall include type of investment, issuer, date of maturity, par and dollar amount invested on all securities, investments and monies held by the Salinas Valley Solid Waste Authority. The report shall state compliance with the investment policy or manner in which the portfolio is not in compliance. It shall also include a statement denoting the ability to meet the Authority's expenditure requirement for the next six months or provide an explanation as to why sufficient money shall, or may, not be available.
12. Any State of California legislative action, that further restricts allowable maturities, investment type or percentage allocations, will be incorporated into the Salinas Valley Solid Waste Authority Investment Policy and supersede any and all previous language.
13. Officers and employees involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program, or that could impair their ability to make impartial decisions.

The basic premises underlying the Authority's investment philosophy are, and will continue to be, to safeguard principal, to meet the liquidity needs of the organization and to return an acceptable yield.

June 15, 2017





## Report to the Board of Directors

ITEM NO. 9

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

General Counsel

Date: June 15, 2017

From: Ray Hendricks, Finance Manager

Title: A Resolution Approving the Disposal and Service Fees Effective July 1, 2017

### RECOMMENDATION

The Executive Committee recommends approval of the service fees effective July 1, 2017 to the Board of Directors.

### STRATEGIC PLAN RELATIONSHIP

This is a routine operational item. It does not directly relate to the Board's Strategic Plan.

### FISCAL IMPACT

Approval of the proposed rate schedule will result in no increase in solid waste tipping fees due to an increased projected tonnage, an increase in AB939 fees of \$90,800, and an increase to the Transfer Station Surcharge of \$ .50.

### DISCUSSION & ANALYSIS

#### AB939 Fee Allocation Correction

There was an error in the formulas presented during the March rate hearing for the reallocation of AB939. Following is what was used in the approved rate schedule in March 2017:

	FY 2013-14	FY 2014-15	FY 2015-16	Total Tonnage FYE 2014-16	Allocation Percentage	Annual AB939 Fee	Monthly AB939 Fee
Salinas	91,878	91,965	91,518	275,361	63.4%	1,471,169	122,597
Monterey	28,988	29,987	32,367	91,342	21.0%	488,012	40,668
Tri Cities (Combined)	15,071	15,071	15,071	45,213	10.4%	241,559	
Soledad							8,425
Greenfield							7,839
Gonzales							3,866
King City	7,422	7,422	7,422	22,266	5.1%	118,960	9,913
	143,359	144,445	146,378	434,182	100.0%	2,319,700	193,308

Following is the corrected allocation:

	FY 2013-14	FY 2014-15	FY 2015-16	Total Tonnage FYE 2014-16	Allocation Percentage	Annual AB939 Fee	Monthly AB939 Fee
Salinas	91,878	91,950	91,518	275,346	63.1%	1,464,696	122,058
Monterey	28,988	30,154	32,367	91,509	21.0%	486,780	40,565
Tri Cities (Combined)	15,071	15,476	16,260	46,807	10.7%	248,989	
Soledad							8,684
Greenfield							8,080
Gonzales							3,985
King City	7,333	7,439	7,643	22,415	5.1%	119,236	9,936
	143,270	145,019	147,788	436,077	100.0%	2,319,700	193,308

The error occurred while allocating the Tri-Cities AB939 rated to the cities. Which was after the analysis of the rates was completed. The impact to the disposal rates remains unchanged to what was presented in March. Following are the March estimates.

Hauler	Service Level	Current Rate	Hauler CPI Increase	Disposal Increase	Franchise Fee Increase	Total Increase*
Republic	32 gal	\$ 24.44	\$ .27	\$ .07	\$ .12	\$ .46
Tri Cities	48 gal	\$ 28.10	\$ .24	\$ .09	\$ .07	\$ .40
WM- County	35 gal	\$ 30.78	\$ .63	\$ .10	\$ .07	\$ .80
WM- King City	35 gal	\$ 29.74	\$ .79	\$ .12	\$ .15	\$ 1.06

The haulers were notified of the error and pending correction prior to their rate hearings. The following table shows City of Salinas, and Tri-Cities rates as they were sent to City Council for approval. As is shown, the disposal increase remains the same as the original estimate, while the hauler CPI is slightly lower than the original estimate. The estimates for Waste Management remain unchanged, since newer information is unavailable.

Hauler	Service Level	Current Rate	Hauler CPI Increase	Disposal Increase	Franchise Fee Increase	Total Increase*
Republic	32 gal	\$ 24.44	\$ .26	\$ .07	\$ .12	\$ .45
Tri Cities	48 gal	\$ 28.10	\$ .19	\$ .09	\$ .06	\$ .34
WM- County	35 gal	\$ 30.78	\$ .63	\$ .10	\$ .07	\$ .80
WM- King City	35 gal	\$ 29.74	\$ .79	\$ .12	\$ .15	\$ 1.06

There are no other changes from the rate schedule approved on March 16, 2017.

#### BACKGROUND

The Board approved the FY 2017-18 rates in a Public Hearing on March 16, 2017. While providing information to the haulers for their annual rate increases, a minor error was found in the calculation of the AB939 fees. The haulers were notified of the error. The corrections to the rate schedules were made prior to submitting to the City Councils. The Executive Committee, and the Board were notified of the error at the May meetings. A subsequent hearing was scheduled for the earliest possible date, June 15, 2017.

#### ATTACHMENT(S)

1. Resolution and Fee Schedule

## RESOLUTION NO. 2017 –

### A RESOLUTION OF THE SALINAS VALLEY SOLID WASTE AUTHORITY APPROVING THE DISPOSAL AND SERVICE FEES EFFECTIVE JULY 1, 2017, RESCINDING RESOLUTION NO. 2017-07

WHEREAS, the Board of Directors of the Salinas Valley Solid Waste Authority held a public hearing on March 16, 2017 to review the disposal fees and rates for FY 2017-18; and,

WHEREAS, on March 16, 2017 the Authority Board adopted Resolution No. 2017-07 approving the Disposal and Service Fees effective July 1, 2017; and,

WHEREAS, an error in the AB939 allocation was subsequently found; and,

WHEREAS the Board of Directors of the Salinas Valley Solid Waste Authority held a second public hearing on June 15, 2017 to review the disposal fees and rates for FY 2017-18; and,

WHEREAS said AB939 fee will be calculated as the full cost of AB939 services, less offsetting revenue and will be allocated to franchise haulers based upon their proportionate share of landfilled tonnage in the previous three fiscal years; and,

WHEREAS, a \$0.50 per ton increase in the Franchise Transportation Surcharge is necessary to pay for the transportation of Franchise Waste; and,

WHEREAS, other minor adjustments are necessary to the rate schedule; and,

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Salinas Valley Solid Waste Authority that the Disposal Fees and Rates Schedule attached hereto as **"Exhibit A"** is hereby approved to become effective July 1, 2017, and Resolution 2017-07 is hereby rescinded; and,

BE IT FURTHER RESOLVED that the General Manager/CAO is hereby authorized to make adjustments to the Disposal Fees and Rates Schedule on a case by case basis for recyclable/diverted materials where there is a clear benefit to the Authority or when there is an instance or a situation not covered by the Disposal Fees and Rates Schedule. In such instances, the Board of Directors will be notified at the next scheduled meeting.

PASSED AND ADOPTED by the Board of Directors of the Salinas Valley Solid Waste Authority at a meeting duly held on the 17th day of March 2017, by the following vote:

AYES: BOARD MEMBERS:

NOES: BOARD MEMBERS:

ABSENT: BOARD MEMBERS:

ABSTAIN: BOARD MEMBERS:

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Simón Salinas, President

ATTEST:

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Erika J. Trujillo, Clerk of the Board

**SALINAS VALLEY SOLID WASTE AUTHORITY****PROPOSED DISPOSAL AND SERVICE FEES**

Effective July 1, 2017

Note: Usefulness and suitability of materials is subject to scale house personnel's discretion.

	Current Fee or Rate	
<u>LANDFILLED MATERIALS</u>		
<u>Franchise Haulers (Class III Solid Waste)</u>	\$	68.50 Per Ton
<u>Self Haul Loads at all Sites</u>		
Minimum charge per load (up to 500 lbs.)	\$	16.00 Per Load
Loads weighing between 501 and 999 lbs.	\$	32.00 Per Load
Loads weighing 1,000 lbs. and above	\$	68.50 Per Ton
<u>Fumigation or Mulch Plastic/Drip Tape - Johnson Canyon only</u>		
Loads weighing 500 lbs. or less	\$	18.75 Per Load
Loads weighing between 501 and 999 lbs.	\$	37.50 Per Load
Loads weighing 1,000 pounds and above	\$	75.00 Per Ton
<u>Nonfriable Asbestos</u>	\$	90.00 Per Ton
Up to 1 cubic yard w/o pre-approval) wetted and double bagged		
<u>Special Handling Charge (in addition to cost per ton) - Johnson Canyon only</u>		
Remediated Soil Handling	\$	100.00 Each
Certified Burials (under 20' trailer)	\$	105.00 Each
Certified Burials (20' and over trailer)	\$	210.00 Each
<u>Special Handling Charge (in addition to cost per ton)</u>		
Unloading Assistance (Per Person, 1 hour minimum)	\$	75.00 Hour
Pull Off / Push Off Assistance	\$	50.00 Each
<u>Tarps</u>	\$	10.00 Each
Untarped Loads	Additional 50% of the Required Fee	
<u>Compost Bins</u>	\$	49.95 Each
<u>*Soil (Loaded by the Customer) - Johnson Canyon</u>	\$	1.00 Per Cubic Yard Up to 500 C.Y.

**AB939 Fees**

AB939 Fees Total	\$	2,319,700	Annual
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Fee is charged to franchise haulers based on prior three years of tonnage:

Fee allocation is as follows:

	<b>FY 2013-14</b>	<b>FY 2014-15</b>	<b>FY 2015-16</b>	<b>Total Tonnage FYE 2014-16</b>	<b>Allocation Percentage</b>	<b>Annual AB939 Fee</b>	<b>Monthly AB939 Fee</b>
Salinas	91,878	91,950	91,518	275,346	63.1%	1,464,696	122,058
Monterey	28,988	30,154	32,367	91,509	21.0%	486,780	40,565
Tri Cities (Combined)	15,071	15,476	16,260	46,807	10.7%	248,989	
Soledad							8,684
Greenfield							8,080
Gonzales							3,985
King City	7,333	7,439	7,643	22,415	5.1%	119,236	9,936
	<u>143,270</u>	<u>145,019</u>	<u>147,788</u>	<u>436,077</u>	<u>100.0%</u>	<u>2,319,700</u>	<u>193,308</u>

**SALINAS VALLEY SOLID WASTE AUTHORITY**

**PROPOSED DISPOSAL AND SERVICE FEES**

Effective July 1, 2017

**Note: Usefulness and suitability of materials is subject to scale house personnel's discretion.**

**Current  
Fee or Rate**

**SOURCE SEPARATED DIVERTIBLE MATERIALS**

**Cardboard**

No Charge

**Recyclable plastic and glass containers, aluminum and paper**

No Charge

**Metal including appliances without freon**

No Charge

**Construction and Demolition materials**

Clean Construction & Demolition	\$	58.00	Per Ton
Minimum charge per load (up to 500 lbs.)	\$	14.50	Per Load
Loads weighing between 501 and 999 lbs.	\$	29.00	Per Load
Loads weighing 1,000 lbs. and above	\$	58.00	Per Ton

**Mattresses and box springs (in recyclable condition)**

Mattresses and Box Springs (5 or less)	No Charge
Mattresses and Box Springs (6 or more)	\$ 5.00 Each

**Green waste and Wood**

Minimum charge up to 500 lbs.	\$	10.00	Per Load
Loads weighing between 501 and 999 lbs.	\$	17.00	Per Load
Loads weighing 1,000 lbs. and above	\$	33.50	Per Ton

Wood Stumps (3 feet and over in diameter) & Tree limbs	\$	68.50	Per Ton
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**Green waste Contamination**

Curbside Truck, 2-3.5 cubic yards of contamination	\$	125.00	per load
Curbside Truck, 3.6-6 cubic yards of contamination	\$	210.00	per load
Curbside Truck, more than 6 cubic yards of contamination	\$	255.00	per load

Transfer Truck, 7-8.5 cubic yards of contamination	\$	125.00	per load
Transfer Truck, 8.6-10 cubic yards of contamination	\$	210.00	per load
Transfer Truck, more than 10 yards of contamination	\$	255.00	per load

**Soil and Aggregate (Johnson Canyon Landfill only)**

Clean Fill Dirt (up to 10 c.y. without pre-approval)	\$	14.00	Per Ton
Asphalt (suitable for road base)	\$	1.00	Per Ton
Concrete (suitable for road base - no rebar)	\$	1.00	Per Ton
Concrete with rebar/pipe	\$	10.00	Per Ton

**Biosolids/Alternative Daily Cover (Johnson Canyon Landfill only and subject to pre-approval)**

\$	28.00	Per Ton
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**Tires (without rims only)**

Auto/Light Truck Tires less than 42"	\$	2.00	Each
Auto/Light Truck Tires more than 42"	\$	10.00	Each
Commercial Tires	\$	75.00	Each
Equipment Tires	\$	150.00	Each
Altered Tires (split, sliced, quartered)	\$	68.50	Per Ton

**SALINAS VALLEY SOLID WASTE AUTHORITY****PROPOSED DISPOSAL AND SERVICE FEES**

Effective July 1, 2017

**Note: Usefulness and suitability of materials is subject to scale house personnel's discretion.**

	Current Fee or Rate	
<b><u>HOUSEHOLD HAZARDOUS WASTE AT COLLECTION FACILITIES</u></b>		
All commercial customers		
Households outside the Authority's service area		
	<b>Minimum charge \$1.50 per lb.</b>	
Absorbent	\$ 1.50	Per Lb.
Absorbent	\$ 8.00	Per Bag
Acids/Bases	\$ 1.50	Per Lb.
Aerosols	\$ 1.25	Per Can
Antifreeze	\$ 1.50	Per Lb.
Environmentally Hazardous Substances (Reactive and Solvents)	\$ 5.00	Per Lb.
Flammable Liquids	\$ 1.50	Per Lb.
Flammable Sludge	\$ 1.50	Per Lb.
Motor Oil - contaminated	\$ 1.50	Per Lb.
Oil Filters (autos and small trucks)	\$ 1.50	Each
Oil Filters (trucks and equipment)	\$ 10.00	Each
Oxidizers	\$ 1.50	Per Lb.
Paint and Paint Related Materials	\$ 1.50	Per Lb.
Pesticides	\$ 1.50	Per Lb.
Toxic Solids	\$ 1.50	Per Lb.
Household Hazardous Waste (HHW) Clean-up Service Fee (1 hour minimum)	\$ 75.00	Per Hour of Labor
Household Hazardous Waste (HHW) Sorting Fee	\$ 25.00	Per customer
<b><u>Appliances and Air Conditioners</u></b>		
Without refrigerant	No Charge	
With refrigerant	\$ 15.00	Each
<b><u>Gas Cylinders (Propane, helium, fire extinguishers only)</u></b>		
Must be empty with valve open		
1 liter	\$ 1.50	Each
5 gallons	\$ 8.00	Each
<b><u>Sharps Disposal (from residences only)</u></b>		
Used needles and lancets (in an approved container)	No Charge	
<b><u>Sharps Containers (for household use)</u></b>		
3 Quart Container	\$ 5.00	Each

**SALINAS VALLEY SOLID WASTE AUTHORITY**

**PROPOSED DISPOSAL AND SERVICE FEES**

Effective July 1, 2017

**Note: Usefulness and suitability of materials is subject to scale house personnel's discretion.**

**Current  
Fee or Rate**

**UNIVERSAL WASTE AT HHW COLLECTION FACILITIES**

	Minimum charge \$1.50 per pound		
Batteries			
Alkaline or Rechargeable A, AA, AAA, B, C, D and 6 volt	\$	1.50	Per Lb.
Nickel-Cadmium, Lithium, Silver Oxide-Hydride Cells, Lead Gel Cells, Nickel-Metal, and Lithium			
UPS/Automobile and Light Truck Batteries		No Charge	
CRT (televisions and computer monitors)		No Charge	
Cell Phones		No Charge	
Computers, keyboard and printers		No Charge	
Copiers, mimeographs, facsimile machines		No Charge	
Compact Fluorescent Bulbs	\$	1.50	Per Lb.
Fluorescent Lamps	\$	1.50	Per Lb.
Halogen, High Pressure Sodium Tubes	\$	1.50	Per Lb.
Fluorescent Ballasts (PCB)	\$	2.00	Per Lb.
Kitchen appliances: microwaves, toaster, toaster ovens		No Charge	
Mercury	\$	7.00	Per Lb.
Mercury thermostats, thermometers or switches	\$	1.00	Each
Toner, developer, ink cartridges (office use)	\$	1.50	Per Lb.
Toner and developer (industrial use)	\$	1.50	Per Lb.

**ADMINISTRATIVE & SPECIAL FEES**

FranchiseTransportation Surcharge	\$	17.50	Per Ton
Agenda Packets for Board or Executive Committee	\$	116.00	Annually
Agendas Only	\$	26.00	Annually
Agendas Only for Public Agencies	\$	18.00	Annually
Reproduction of Public Records	\$	0.10	Per Page
Copies of Weight Tags	\$	20.00	Each
Returned Check Fee	\$	25.00	Each
Finance Charge on accounts 30+ Days Past Due	1.5% per mo., 18% annually		
Media duplication for disks, cds, tapes	Actual Cost		
	\$5.00 Min.		Each
Plans & Specifications for Construction Projects	Actual Cost		
	\$15.00 Min.		Per Set
Full Size Plans for Construction Projects	Actual Cost		
	\$15.00 Min		Per Set



# Fiscal Year 2017-18 Rates and Fee Schedule

Board of Directors  
June 15, 2017



# AB939 Allocation Correction

## Approved in March

	FY 2013-14	FY 2014-15	FY 2015-16	Total Tonnage FYE 2014-16	Allocation Percentage	Annual AB939 Fee	Monthly AB939 Fee
Salinas	91,878	91,965	91,518	275,361	63.4%	1,471,169	122,597
Monterey	28,988	29,987	32,367	91,342	21.0%	488,012	40,668
Tri Cities (Combined)	15,071	15,071	15,071	45,213	10.4%	241,559	
Soledad							8,425
Greenfield							7,839
Gonzales							3,866
King City	7,422	7,422	7,422	22,266	5.1%	118,960	9,913
	<u>143,359</u>	<u>144,445</u>	<u>146,378</u>	<u>434,182</u>	<u>100.0%</u>	<u>2,319,700</u>	<u>193,308</u>

## Corrected

	FY 2013-14	FY 2014-15	FY 2015-16	Total Tonnage FYE 2014-16	Allocation Percentage	Annual AB939 Fee	Monthly AB939 Fee
Salinas	91,878	91,950	91,518	275,346	63.1%	1,464,696	122,058
Monterey	28,988	30,154	32,367	91,509	21.0%	486,780	40,565
Tri Cities (Combined)	15,071	15,476	16,260	46,807	10.7%	248,989	
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# Total Estimated Residential Rates

Hauler	Service Level	Current Rate	Hauler CPI Increase	Disposal Increase	Franchise Fee Increase	Total Increase*
Republic	32 gal	\$ 24.44	\$ .27	\$ .07	\$ .12	\$ .46
Tri Cities	48 gal	\$ 28.10	\$ .24	\$ .09	\$ .07	\$ .40
WM- County	35 gal	\$ 30.78	\$ .63	\$ .10	\$ .07	\$ .80
WM- King City	35 gal	\$ 29.74	\$ .79	\$ .12	\$ .15	\$ 1.06

## Actual

Hauler	Service Level	Current Rate	Hauler CPI Increase	Disposal Increase	Franchise Fee Increase	Total Increase*
Republic	32 gal	\$ 24.44	\$ .26	\$ .07	\$ .12	\$ .45
Tri Cities	48 gal	\$ 28.10	\$ .19	\$ .09	\$ .06	\$ .34

- Tri-Cities CPI increase is for ½ year
- \* Total increase is between 1.4% and 3.6%

# Questions/Comments



Progress as of 6/15/17

**SALINAS VALLEY SOLID WASTE MANAGEMENT AUTHORITY  
(dba SALINAS VALLEY RECYCLES)**

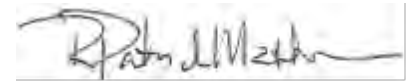
**SIX-MONTH STRATEGIC OBJECTIVES**

**SIX MONTH OBJECTIVES**

**January 25, 2017 – July 15, 2017**

ITEM NO. 10

Agenda Item



General Manager/CAO

**2016-2019 THREE-YEAR GOALS**

THREE-YEAR GOAL: *SELECT AND IMPLEMENT FACILITIES (e.g., SALINAS AREA MATERIALS RECOVERY CENTER) AND PROGRAMS THAT LEAD TO ACHIEVEMENT OF AT LEAST 75% WASTE DIVERSION*

WHEN	WHO	WHAT	STATUS			COMMENTS
			DONE	ON TARGET	REVISED	
1. At the April 20, 2017 and <del>June</del> 15 July 24, 2017 Board meetings and at least quarterly thereafter	General Manager	Provide to the Board progress reports on the long-term facility needs Environmental Impact Report (EIR) and other due diligence activities.			X	Included in the April Board meeting. Next update will be provided in conjunction with the Board's July retreat
2. By June 1, 2017	General Manager	Schedule and conduct public informational meetings to educate stakeholders and community on the Long-Term Facilities Needs Project scenarios being studied under CEQA and report results to the Board.	X			Five public informational meetings were conducted in May at locations near each project location. Meeting details are included in the public education piece.
3. By the June 15, 2017 Board meeting	Operations Manager and Resource Recovery Manager, engaging impacted stakeholders	Present to the Board the results of research of debagging equipment to assist with diversion of bagged foods waste produced by agriculture companies and other food waste generators.		X		Presentation on debagging system is scheduled for the June meeting.
FUTURE: By _____ 2017, concurrent with release of draft EIR	General Manager and Resource Recovery Manager	Present to the Board for consideration the Second Phase of public engagement regarding the future SVR facility options and EIR.		X		Pending completion of draft EIR and other due diligence studies in late 2017.

Progress as of 6/15/17

THREE-YEAR GOAL: <i>REDUCE LANDFILL DISPOSAL FEE DEPENDENCE THROUGH SELF-FUNDED PROGRAMS AND NEW REVENUE SOURCES</i>						
WHEN	WHO	WHAT	STATUS			COMMENTS
			DONE	ON TARGET	REVISED	
1. On or before the May 18, 2017 Board meeting	Assistant General Manager	Recommend a final decision on a Construction and Demolition Recycling Program for inclusion in the SVR 2017-2018 budget.	X			Board report and presentation was provided at the May 2017 meeting. Staff recommended and board approved deferring the item until Spring 2018 to allow the MRWMD to operate and have a better understanding of recovery rates of their new sort line.
2. At the June 15, 2017 Board meeting	General Manager	Explore alternative energy projects at SVR facilities and make a recommendation to the Board for action.	X			Scheduled for the June Board meeting.

Progress as of 6/15/17

THREE-YEAR GOAL: <i>PROMOTE THE VALUE OF SVR SERVICES AND PROGRAMS TO THE COMMUNITY</i>						
WHEN	WHO	WHAT	STATUS			COMMENTS
			DONE	ON TARGET	REVISED	
1. By June 1, 2017	Six Board Members (Rob Cullen, Liz Silva, Simon Salinas, Gloria de la Rosa, Avelina Torres and Tony Barrera)	Attend at least one community event to promote SVR services and programs and report the results to the Board.	X			Directors have been self-reporting events they have attended in the past six months. Board report scheduled for June meeting. 5 of 6 Board members have self - reported participation.
2. At the June 15, 2017 Board meeting	Marketing Committee (Resource Recovery Manager-lead), working with the Marketing Intern	Report to the Board progress on social media projects (e.g., videos and social media promotions) to increase followers.		X		Presentation is scheduled for June meeting
3. At the June 15, 2017 Board meeting	General Manager and Resource Recovery Manager	Present to the Board for consideration a Community and Stakeholders Survey for feedback regarding future SVR facility options and the EIR.		X		Presentation is schedule for June Board meeting.
4. By July 1, 2017	Marketing Committee Resource Recovery Manager	Research and make a recommendation to the Management Team and the Board regarding a Green Leader Recognition Award Program for business, multifamily housing and community leaders (e.g., selection criteria, award process and a community event mixer).	X			Recommendations have been presented to GM and under discussion internally.

Progress as of 6/15/17

THREE-YEAR GOAL: <i>MAINTAIN A HIGH PERFORMANCE AND FLEXIBLE WORKFORCE</i>						
WHEN	WHO	WHAT	STATUS			COMMENTS
			DONE	ON TARGET	REVISED	
1. Beginning in March 2017 and quarterly thereafter	<del>HR Manager</del> General Manager	Implement internal employee informational meetings, with potential attendance by Board members.	X			Lunches with GM are ongoing and scheduled monthly with 4-5 employees.
2. By <del>June 1</del> September 31, 2017	<del>HR Manager</del> General Manager	Complete 360 Feedback Process for Managers (all staff evaluate their managers).			X	Revised date to September, after new training budget funds become available and reorganizational changes are considered.
3. By June 15, 2017	HR Manager	Research performance management systems for employees and make a recommendation to the General Manager.	X			Made adjustments to current performance management system.
4. By July 1, 2017	HR Manager	Expand the current emergency plan to include natural disaster preparedness for all staff and report the results to the Board.		X		Regional training scheduled for July 13 <sup>th</sup> with other area agencies.



# 2016-2019 Strategic Plan Update

Patrick Mathews  
General Manager/CAO

June 15, 2017



# **2016-17 Strategic Goals**

- **Select and implement facilities and programs that lead to achievement of at least 75% waste diversion.**
- **Reduce landfill disposal fee dependence through self-funded programs and new revenue sources.**
- **Promote the value of SVR services and programs to the community.**
- **Promote and maintain a high performance, efficient, and flexible workforce**

# **GOAL: Fund and Implement 75% Diversion of Waste from Landfills**

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- Quarterly updates on due diligence study progress
- Stakeholder & Public information meetings
- Exploring Ag waste debugging systems

# **GOAL: Reduce Landfill Disposal Fee Dependence through Self-Funded Programs and New Revenue Sources**

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- Continued discussion on C&D recovery options and funding needs to self-sustain program
- Continued pursuit of renewable energy project development at SVR sites
  - MBCP
  - Solar projects on closed landfills

# **GOAL: Promote the Value of SVR Services and Programs to the Community**

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- Board participation at community events
- Social media projects/efforts to increase followers
- EIR & due diligence study survey
- Green Leader recognition

# **GOAL: Promote & Maintain a High Performance, Efficient & Flexible Workforce**

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- Internal employee information meetings
- 360 feedback for managers
- Update employee performance management system
- Update emergency plans to include natural disaster preparedness

# **2016-19 Strategic Plan Update**

**QUESTIONS-  
COMMENTS?**



## Report to the Board of Directors

Date: June 15, 2017

From: Jenny Mitchell, Recycling Coordinator

Title: Social Media Progress Report

ITEM NO. 11

N/A

Finance Manager/Controller-Treasurer

N/A

General Counsel

N/A

General Manager/CAO

A REPORT WILL BE GIVEN  
AT THE MEETING



# Social Media Progress Report

Presented by:

Jenny Mitchell - Recycling Coordinator

Mayra Martinez - Marketing Intern



July 2016 - May 2017



# 2016-19 STRATEGIC PLAN

## GOAL C: Promote the value of SVR services and programs to the community

### Six-Month Strategic Objectives

- ❑ Objective 5 - July 2016 - January 2017
  - Explore recruiting a communications major intern for social media projects, such as creating videos and developing social media promotions, to increase followers.
- ❑ Objective 2 - January 2017 - July 2017
  - Report to the Board, progress on social media projects (e.g., videos and social media promotions) to increase followers.



# MAYRA'S APPROACH


Goals:

- ❑ **Increase SVR's presence on social media**   
- ❑ Increase public awareness and encourage behavioral change towards more environmentally friendly decisions.
- ❑ **Achieve “A Future Without Landfills!”**

Media and Marketing Strategies:

- ❑ Social Media
- ❑ Media Campaigns
- ❑ Additional Media Outreach

# Social Media

- ❑ Created an SVR Instagram Account 
- ❑ Used Facebook as the main platform and modified content for Twitter and Instagram
- ❑ Increased:
  - ❑ Number of posts
  - ❑ Creativity of posts
  - ❑ Promotion of SVR facilities, services, programs & events
  - ❑ Videos posted
  - ❑ Shared videos and posts from other organizations such as CalRecycle, Protect Your Central Coast, Project Earth & Kiss the Ground
  - ❑ Links to main SVR website
- ❑ Initiated SVR engagement through social media campaigns



Turtles often mistake plastic bags for jellyfish



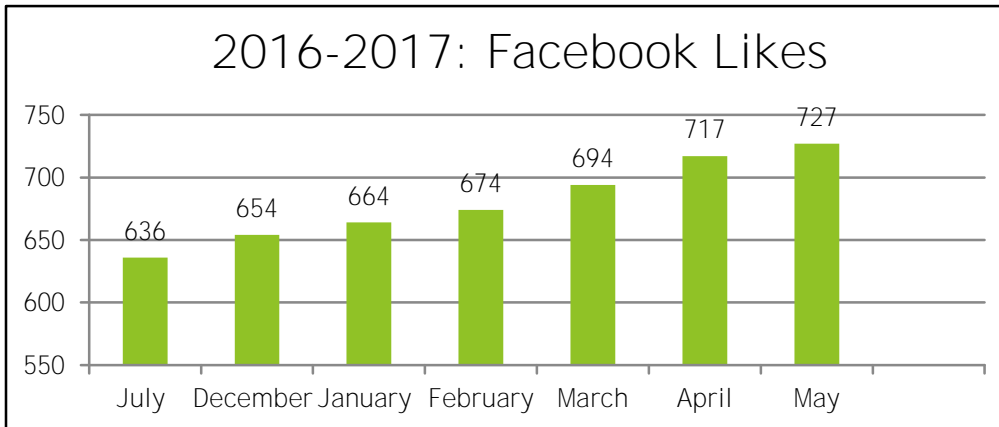
Save a turtle.

Use less plastic

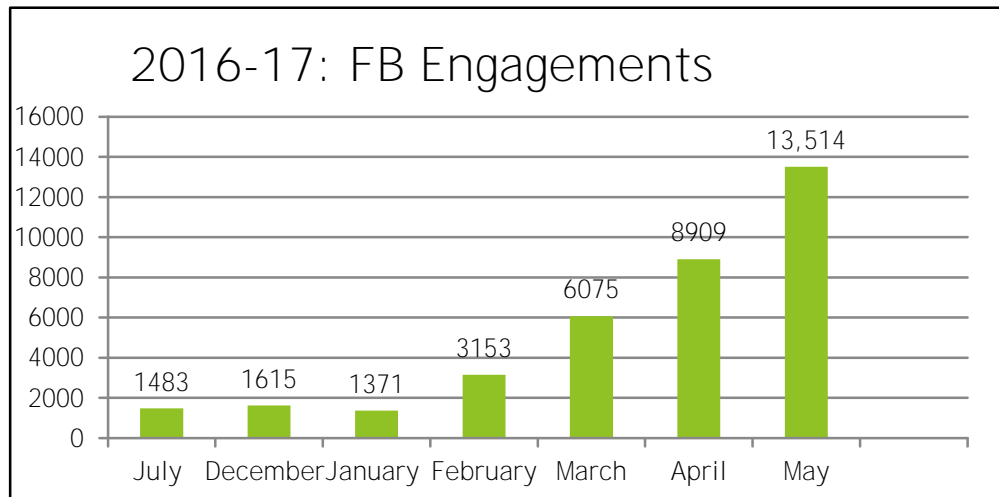


# Facebook Statistics

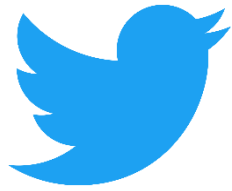
2016-2017: Facebook Likes



2016-17: FB Engagements

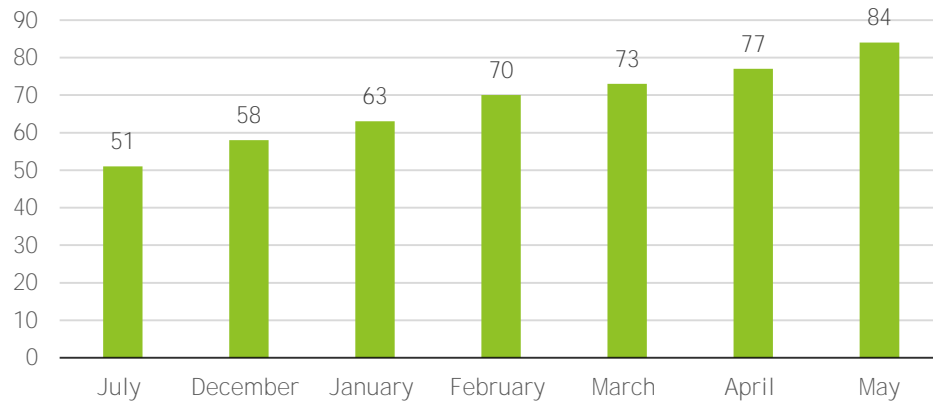


Top-viewed Facebook post -  
**“Free Tire Recycling”**



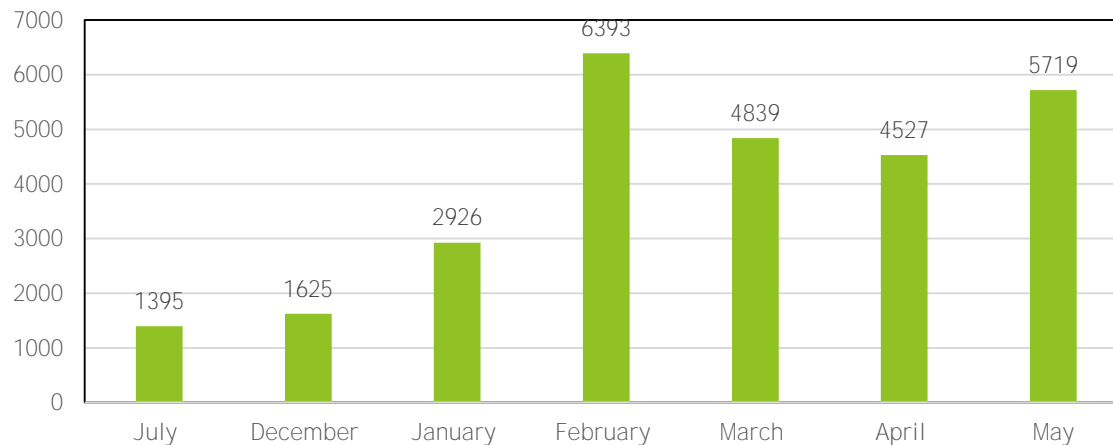
# Twitter Statistics

2016-2017: Twitter Followers



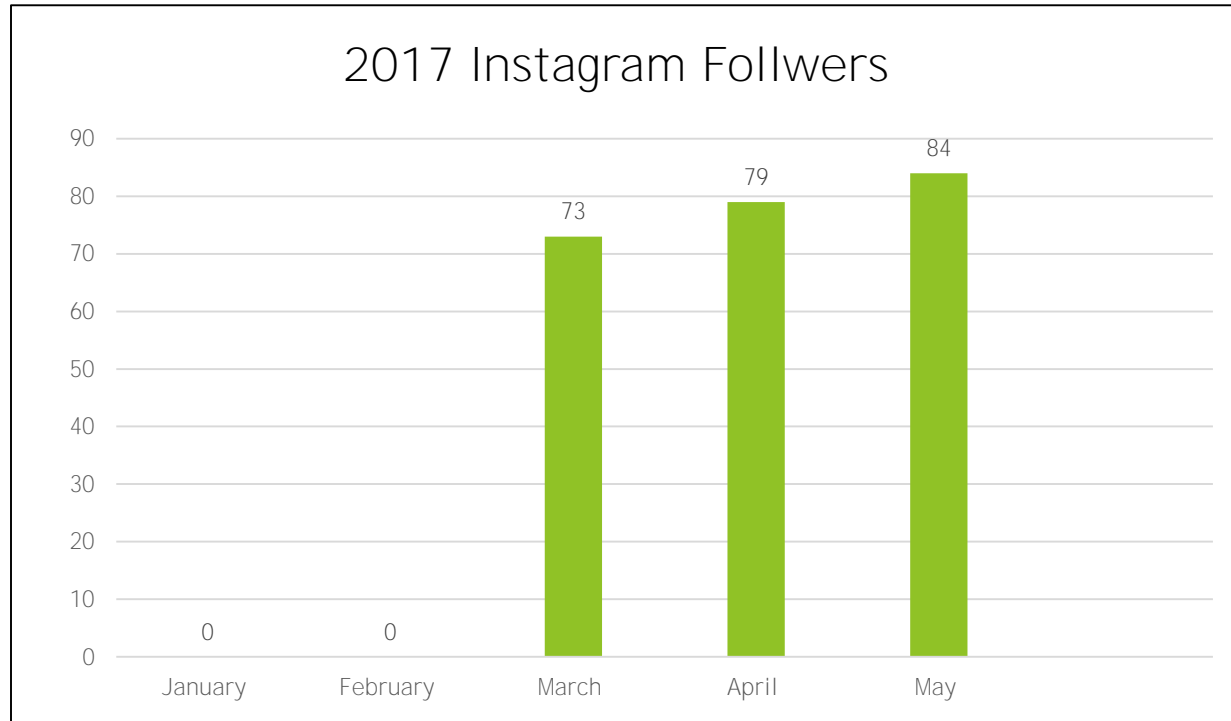
Most popular Tweet -  
**“No such thing as away”**

2016-2017: Monthly Twitter Impressions





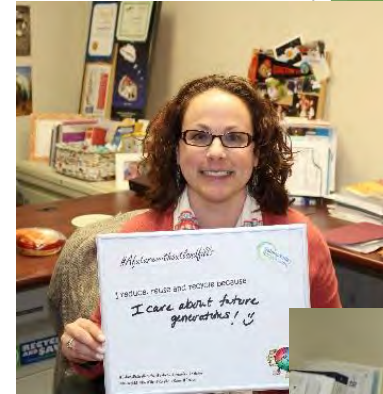
# Instagram Statistics



# Social Media Campaigns

## “A future without landfills!” Campaign

- ❑ The goal was to create consciousness and awareness about the shared responsibility of reducing the need for landfills.
- ❑ Staff was asked why they reduce, reuse and recycle
- ❑ Our viewers got a chance to meet some of our staff



## “Follow Us” Raffle

- ❑ The goal was to gain new followers on all social media platforms and to get our followers on Twitter and Facebook to like our new Instagram page.
- ❑ Our viewers were asked to follow us on social media for a chance to win a gift card.





# Additional Media Outreach

## Business cards

- ❑ Created to hand out at outreach events and public meetings
- ❑ Targets community members and potential customers

## Social Media Sign

- ❑ Made from recycled metal
- ❑ Placed at the front gate of SSTs
- ❑ Targets current customers who are not aware of our social media presence

## Newsletter

- ❑ Promotes SVR facilities, services, projects, programs, events and other related news and events
- ❑ Targets community members who are interested in SVR activities, but are not as active on social media





# Thank you!



## Questions?





## Report to the Board of Directors

ITEM NO. 12

N/A

Finance Manager/Controller-Treasurer

General Manager/CAO

N/A

Legal Counsel

Date: June 15, 2017

From: Patrick Mathews, General Manager/CAO and  
Mandy Brooks, Resource Recovery Manager

Title: CEQA Feedback Survey Results for the Long-Term Facility Needs Project, Environmental Impact Report

### RECOMMENDATION

Staff recommends the Board accept the report.

### STRATEGIC PLAN RELATIONSHIP

This project relates to the Three-Year Goal to Promote the Value of SVR Services and Programs to the Community and Objective 3, Present to the Board a Community and Stakeholders Survey for feedback regarding the future SVR facility options and the Environmental Impact Report (EIR).

### FISCAL IMPACT

There is no direct fiscal impact as a result of this item.

### DISCUSSION & ANALYSIS

In conjunction with the public information meetings and outreach activities, a community and stakeholders survey was developed to **engage the public in SVR's Long-Term Facility Needs (LTFN) Project** study process. The survey focused on the environmental, cost and service impacts of the project and determining which impacts the community considers the most important to them and the community. The ranking was based on a scale from 1 to 5 with 1 being the least important and 5 being the most important.

This bilingual survey was developed for use both on-line via Survey Monkey as well as hardcopy and mail-in version. The survey was **available on SVR's Website Home Page** under Announcements and **was distributed via SVR's e-mail distribution lists** including the April and May E-newsletters with 500 plus recipients.

Memes were developed for use on social media that were consistent with the style of the public outreach inserts to further engage survey and public meeting participation. From May 1<sup>st</sup> thru 24<sup>th</sup>, twenty-two (22) postings, including a video production were posted on SVR's Facebook, Instagram and Twitter accounts.

During the month of May, scale house staff distributed the public outreach inserts to customers at Sun St Transfer Station, Johnson Canyon Landfill, and Jolon Road Transfer station. On May 12, 15, and 20, staff directly distributed over 185 public outreach inserts and surveys to Sun St

customers encouraging participation in the survey and public information meetings. Members of SVR's Citizen Advisory Group also distributed the public outreach inserts in their respective communities at local gatherings to further encourage public participation in the process.

Direct e-mail correspondence regarding the project and survey was also sent to the Fort Ord Reuse Authority (FORA), California State University Monterey Bay (CSUMB), and local non-profit groups including Sustainable Marina and Sustainable Salinas. Hardcopies of the survey were also available at the five (5) Public Information Meetings conducted throughout the month of May.

Based on the forty-two (42) surveys received, the top three environmental impact categories that had an average ranking of over 4.2 or higher that are most important to respondents were:

1. Waste Reduction, Recycling and Landfilling,
2. Hydrology and Water Quality; and
3. Hazards and Hazardous Materials, Utilities and Public Services, and Legal & Regulatory Compliance (three-way tie).

While forty-two (42) surveys is not a statically significant sample size, it was the most successful response to a self-reported survey that SVR has distributed in recent years. The survey also allowed for additional comments. Of the nineteen (19) comments received most were praising the helpful staff at Sun St and the need for a centrally located Salinas facility, while others that own properties adjacent to Sun St commented about the negative environmental impacts the current operation at Sun St has on the surrounding community. See attached survey results for a complete listing of all comments.

Comments were also received at the Public Information meetings. Though there was low attendance from community members at the public meetings, the comments received at the meetings were valuable. The concerns primary focused on traffic, noise and odor issues. While these impacts **didn't rank in the top three** of the survey results, they each rated over an average of a 3.6 out of 5 on the survey ranking indicating an above average concern for these impact areas. A few property owners voiced concerned about agricultural food safety and storm water runoff issues at select site locations. Additional comments came from two land owners/ developers with property interests surrounding the Sun St. facility voicing concerns about the No Project scenario of staying at Sun St.

## BACKGROUND

The full public outreach plan **for the LTFN's Project** was presented to the Board at the June 2016 Board meeting. After review of the original outreach piece, the Board direct staff and a subcommittee of Board members to work on reducing the length of the document and emphasizing the project background and public participation process.

Preparation of the public outreach insert was complete with the final draft approved by the Board for distribution at its March 2017 meeting including all the secured dates and locations for each of the five public meetings. The final product was also translated into Spanish.

Over 89,000 copies of the revised 4-page newspaper insert which outlines the 5 project scenarios, the clean fiber recovery system and public engagement process were distributed through local newspapers on the following dates (which corresponded with the public information meeting dates and locations):

- April 28: Salinas Californian, 7,000 copies
- April 29: El Sol, 30,000 copies
- May 11: Monterey County Weekly, 36,000 copies

- May 17: South County Papers, 4,500 copies
- May 18: Monterey Herald, 11,630 copies

A press release for the Notice of Preparation (NOP) and Public Information Meetings was also released on April 28 to local media outlets and the Monterey Herald published an article on Saturday, April 29, which landed on page 2 - lead story for local news. The Salinas Californian and Off 68 newspapers also listed the public meetings in their community calendar sections. KRKC radio in King City and La Ganga also posted on their Facebook pages.

The intent of this first major outreach effort is to engage the public, explain the options under consideration and provide information to all stakeholders on how to participate in the various study processes. A second major outreach effort will be undertaken upon completion of all the studies, providing an overview of the various study results, findings and outcomes in advance of the decision process.

Attachments:

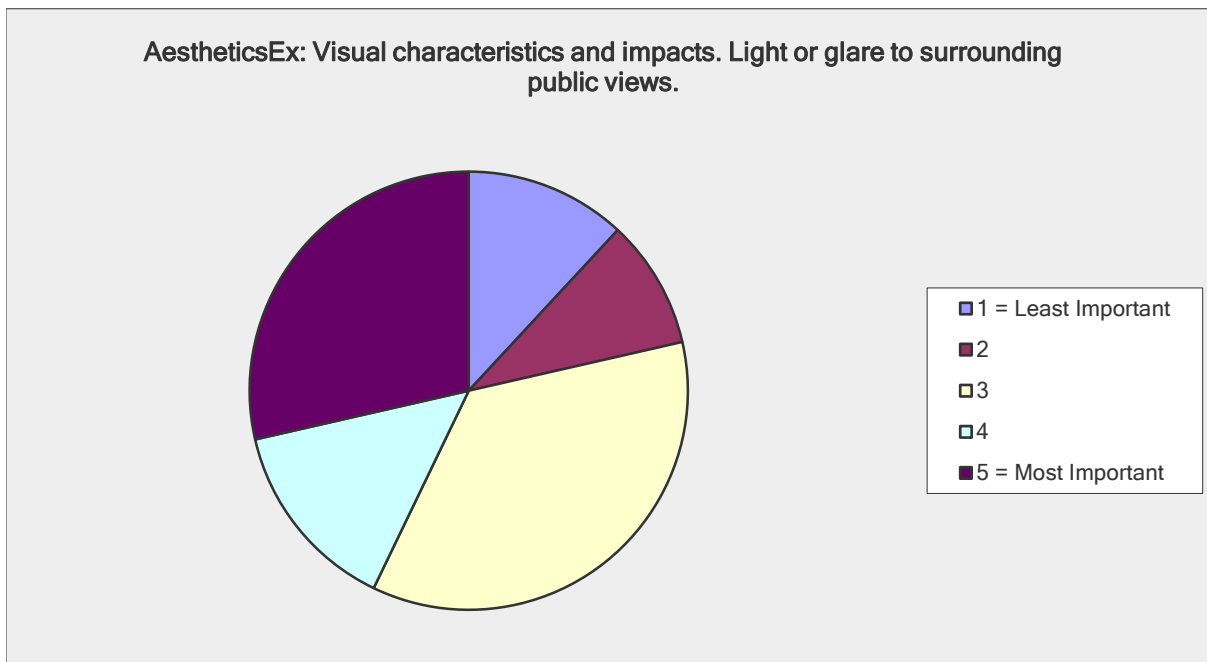
1. Survey Results

## Community Feedback Survey - May 2017

**Aesthetics Ex: Visual characteristics and impacts. Light or glare to surrounding public views.**

Answer Options	Response Percent	Response Count
1 = Least Important	11.9%	5
2	9.5%	4
3	35.7%	15
4	14.3%	6
5 = Most Important	28.6%	12
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.4**

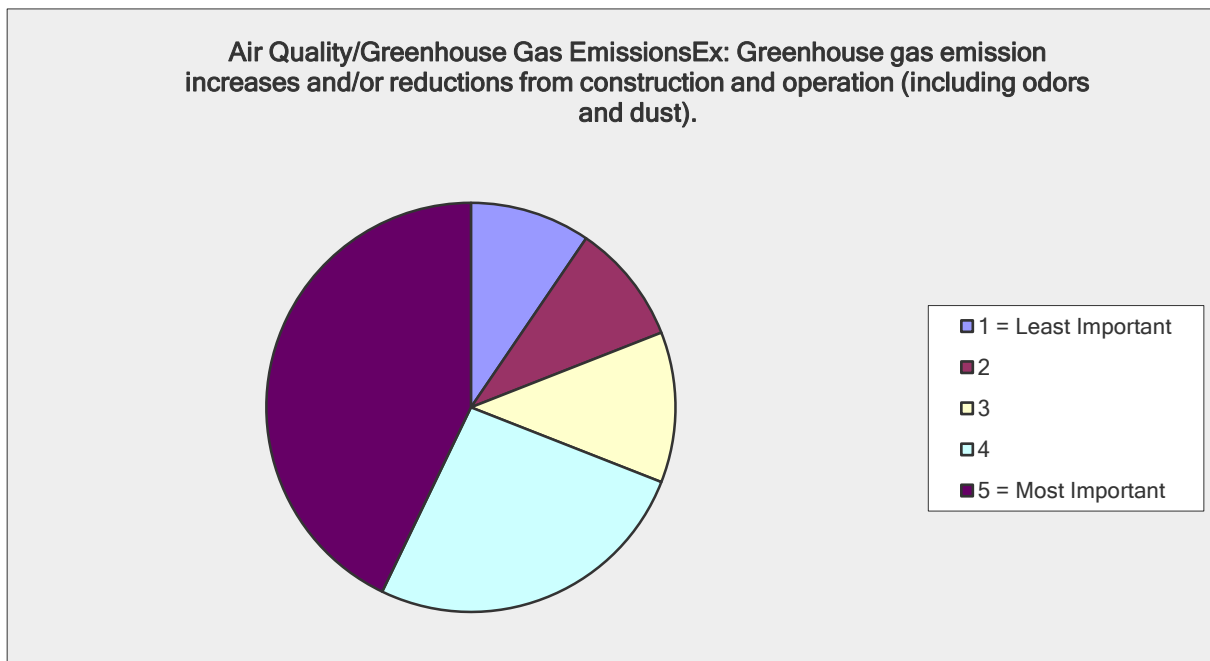


## Community Feedback Survey - May 2017

**Air Quality/Greenhouse Gas Emissions** Ex: Greenhouse gas emission increases and/or reductions from construction and operation (including odors and dust).

Answer Options	Response Percent	Response Count
1 = Least Important	9.5%	4
2	9.5%	4
3	11.9%	5
4	26.2%	11
5 = Most Important	42.9%	18
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.8**



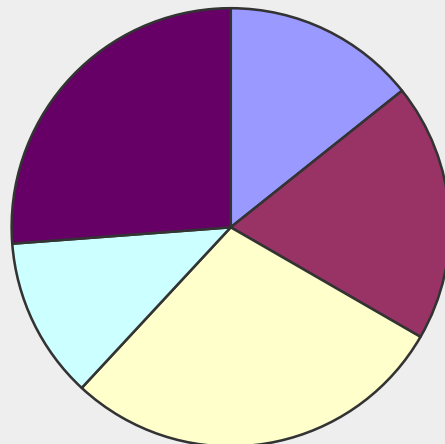
## Community Feedback Survey - May 2017

**Cultural Resources** Ex: Historical artifacts and resources found on the project site.

Answer Options	Response Percent	Response Count
1 = Least Important	14.3%	6
2	19.0%	8
3	28.6%	12
4	11.9%	5
5 = Most Important	26.2%	11
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.2**

**Cultural Resources**Ex: Historical artifacts and resources found on the project site.



- 1 = Least Important
- 2
- 3
- 4
- 5 = Most Important

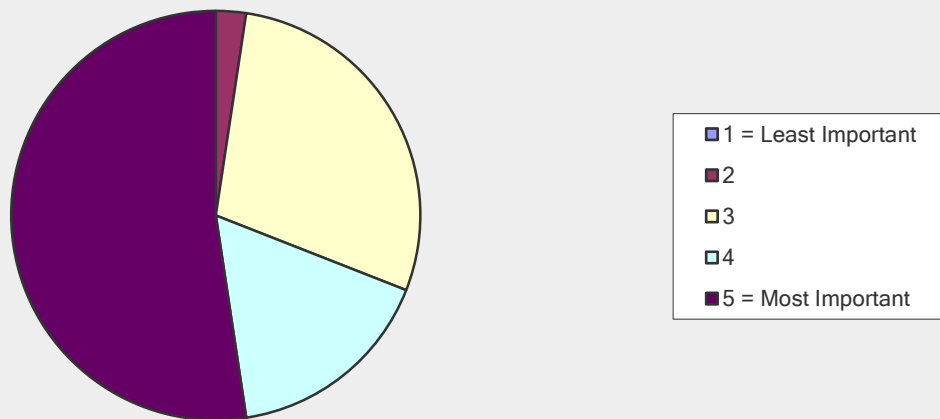
## Community Feedback Survey - May 2017

**Hazards and Hazardous Materials** Ex: Hazards and hazardous materials associated with short-term construction and long-term operation activities. Onsite household hazardous

Answer Options	Response Percent	Response Count
1 = Least Important	0.0%	0
2	2.4%	1
3	28.6%	12
4	16.7%	7
5 = Most Important	52.4%	22
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.2**

**Hazards and Hazardous Materials** Ex: Hazards and hazardous materials associated with short-term construction and long-term operation activities. Onsite household hazardous waste facility.





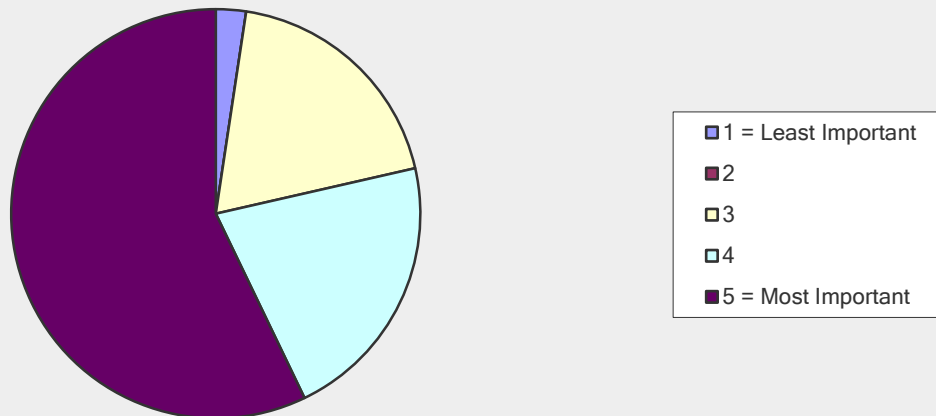
## Community Feedback Survey - May 2017

Hydrology and Water Quality Ex: Storm water design and water quality. Climate change impacts such as warming temperatures, changes in precipitation, and sea level rise.

Answer Options	Response Percent	Response Count
1 = Least Important	2.4%	1
2	0.0%	0
3	19.0%	8
4	21.4%	9
5 = Most Important	57.1%	24
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.3**

Hydrology and Water Quality Ex: Storm water design and water quality. Climate change impacts such as warming temperatures, changes in precipitation, and sea level rise.



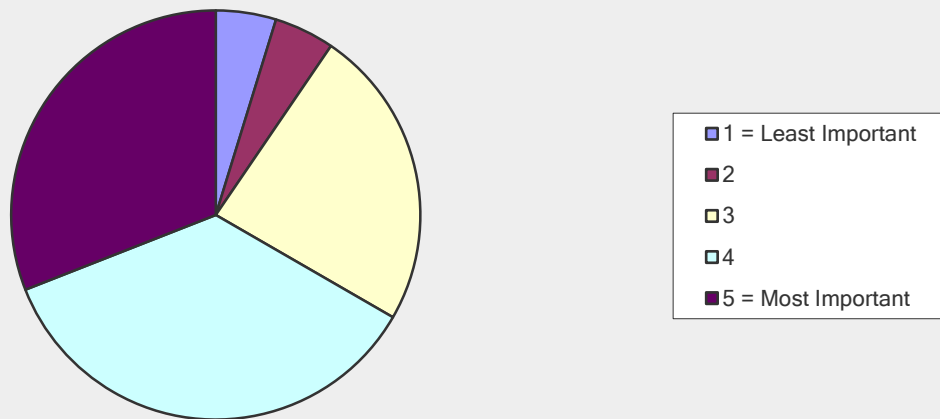
## Community Feedback Survey - May 2017

**Land Use and Planning Ex: Consistency with applicable land use and zoning designations, plans, and policies; compatibility with other land uses. Variances or**

Answer Options	Response Percent	Response Count
1 = Least Important	4.8%	2
2	4.8%	2
3	23.8%	10
4	35.7%	15
5 = Most Important	31.0%	13
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.8**

**Land Use and PlanningEx: Consistency with applicable land use and zoning designations, plans, and policies; compatibility with other land uses. Variances or rezoning at the different sites.**



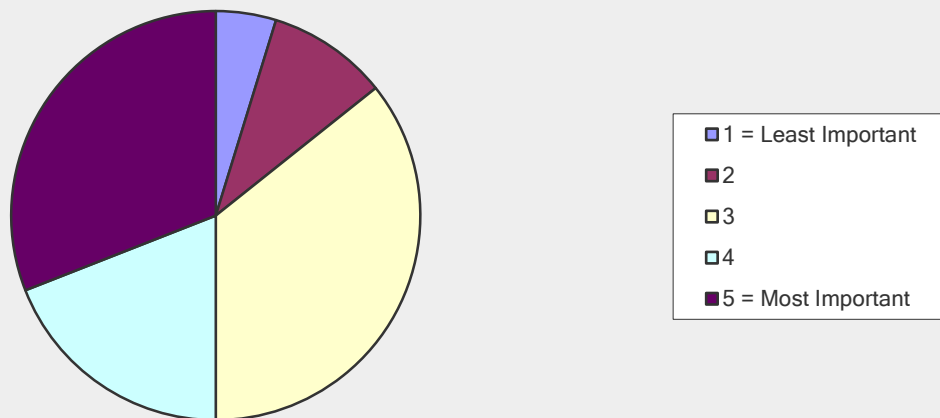
## Community Feedback Survey - May 2017

**Noise and Vibration Ex: Short-term construction and long-term operational noise impacts to surrounding land uses, focusing on nearby communities.**

Answer Options	Response Percent	Response Count
1 = Least Important	4.8%	2
2	9.5%	4
3	35.7%	15
4	19.0%	8
5 = Most Important	31.0%	13
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.6**

**Noise and VibrationEx: Short-term construction and long-term operational noise impacts to surrounding land uses, focusing on nearby communities.**

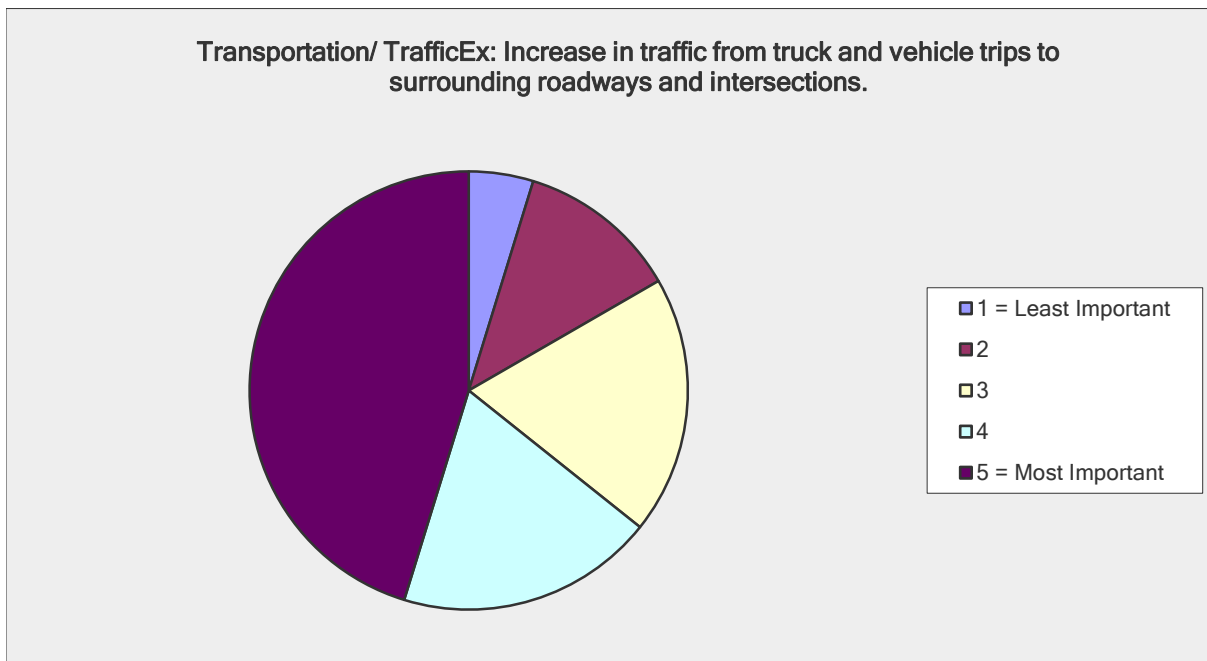


## Community Feedback Survey - May 2017

Transportation/ Traffic Ex: Increase in traffic from truck and vehicle trips to surrounding roadways and intersections.

Answer Options	Response Percent	Response Count
1 = Least Important	4.8%	2
2	11.9%	5
3	19.0%	8
4	19.0%	8
5 = Most Important	45.2%	19
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

Average 3.9



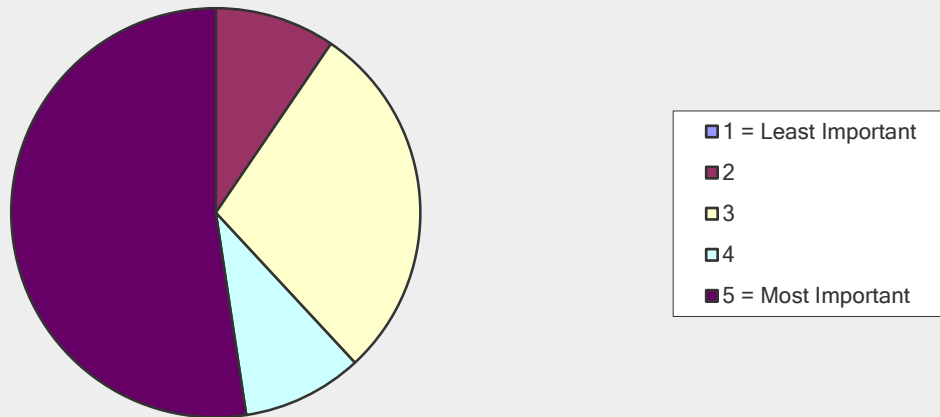
## Community Feedback Survey - May 2017

**Utilities and Public Services Ex: Impacts to water supply, wastewater collection and treatment, solid waste, police and fire services, and schools and associated**

Answer Options	Response Percent	Response Count
1 = Least Important	0.0%	0
2	9.5%	4
3	28.6%	12
4	9.5%	4
5 = Most Important	52.4%	22
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.0**

**Utilities and Public Services Ex: Impacts to water supply, wastewater collection and treatment, solid waste, police and fire services, and schools and associated infrastructures.**



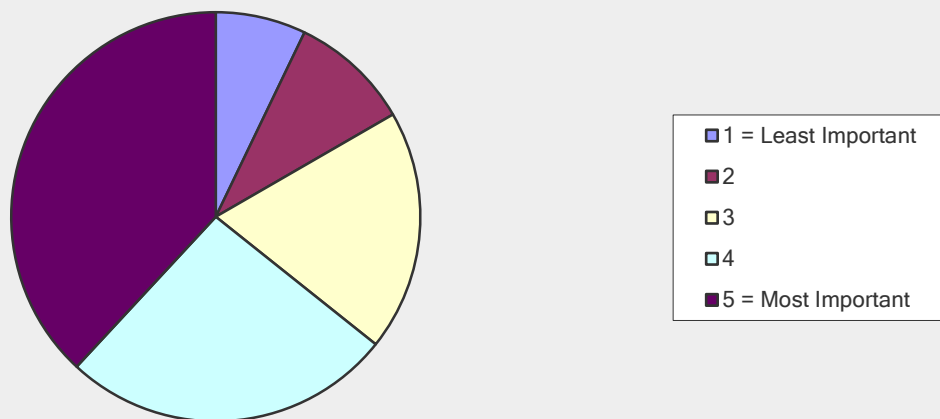
## Community Feedback Survey - May 2017

**Growth Inducing Impacts** Ex: Effects or ways the project could foster economic or population growth, or removal of obstacles to growth.

Answer Options	Response Percent	Response Count
1 = Least Important	7.1%	3
2	9.5%	4
3	19.0%	8
4	26.2%	11
5 = Most Important	38.1%	16
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.8**

**Growth Inducing Impacts**Ex: Effects or ways the project could foster economic or population growth, or removal of obstacles to growth.



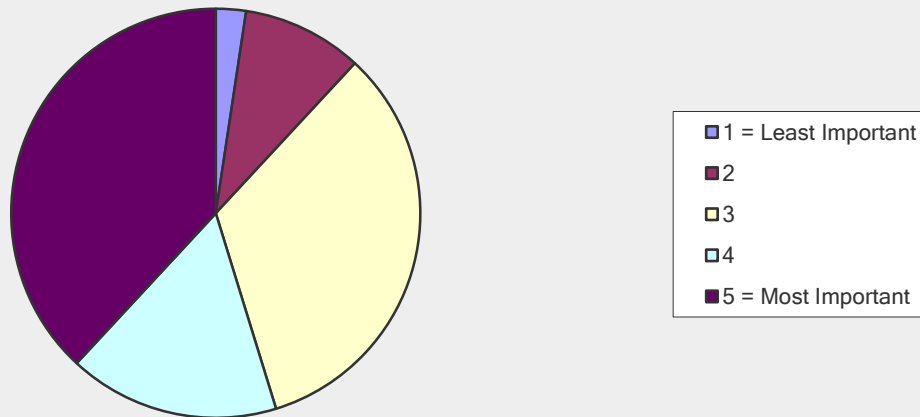
## Community Feedback Survey - May 2017

**Cumulative Impacts** Ex: Cumulative impacts of the project when combined with past, present, and reasonably anticipated future projects in the area.

Answer Options	Response Percent	Response Count
1 = Least Important	2.4%	1
2	9.5%	4
3	33.3%	14
4	16.7%	7
5 = Most Important	38.1%	16
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average**     **3.8**

**Cumulative Impacts**Ex: Cumulative impacts of the project when combined with past, present, and reasonably anticipated future projects in the area.

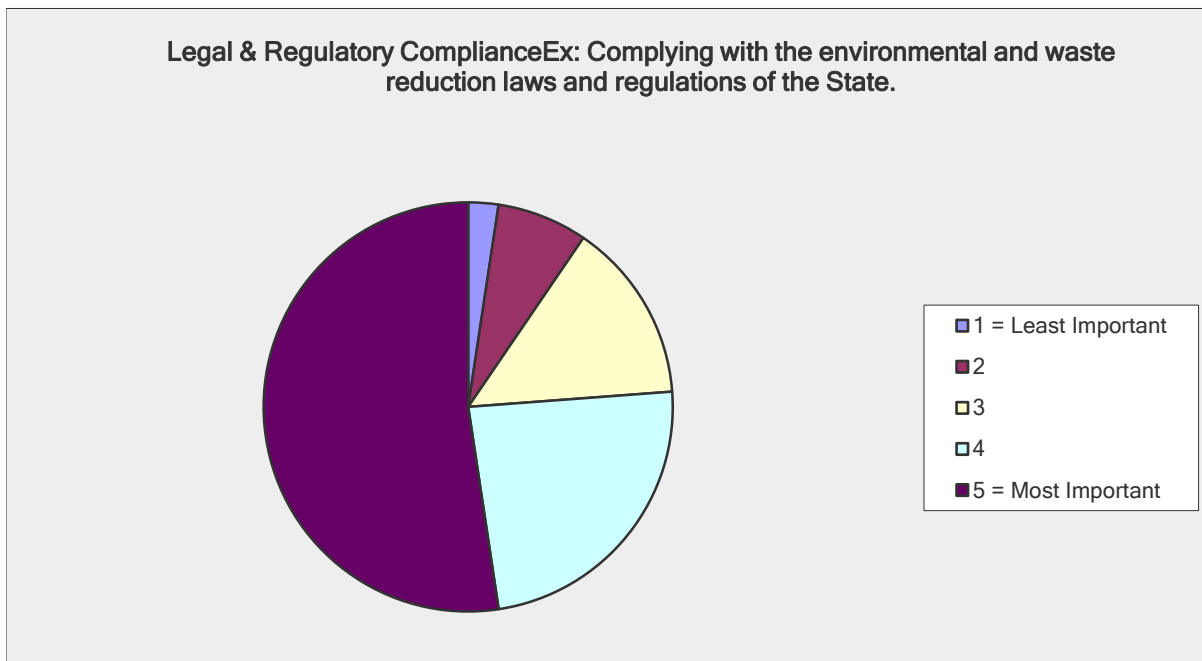


## Community Feedback Survey - May 2017

**Legal & Regulatory Compliance** Ex: Complying with the environmental and waste reduction laws and regulations of the State.

Answer Options	Response Percent	Response Count
1 = Least Important	2.4%	1
2	7.1%	3
3	14.3%	6
4	23.8%	10
5 = Most Important	52.4%	22
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.2**



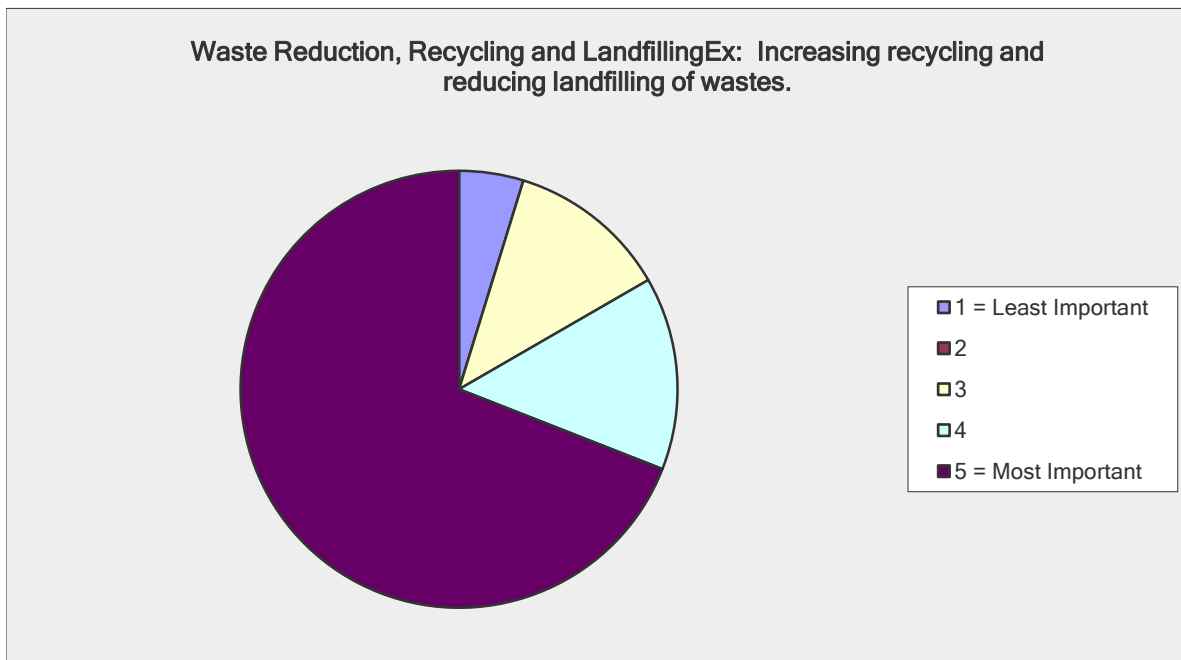


## Community Feedback Survey - May 2017

**Waste Reduction, Recycling and Landfilling** Ex: Increasing recycling and reducing landfilling of wastes.

Answer Options	Response Percent	Response Count
1 = Least Important	4.8%	2
2	0.0%	0
3	11.9%	5
4	14.3%	6
5 = Most Important	69.0%	29
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.4**



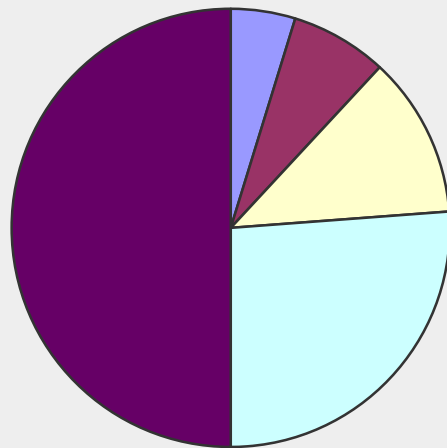
## Community Feedback Survey - May 2017

**Access to Public Services Ex: Disposal, recycling and household hazardous waste services in proximity to users, ease of access.**

Answer Options	Response Percent	Response Count
1 = Least Important	4.8%	2
2	7.1%	3
3	11.9%	5
4	26.2%	11
5 = Most Important	50.0%	21
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.1**

**Access to Public ServicesEx: Disposal, recycling and household hazardous waste services in proximity to users, ease of access.**



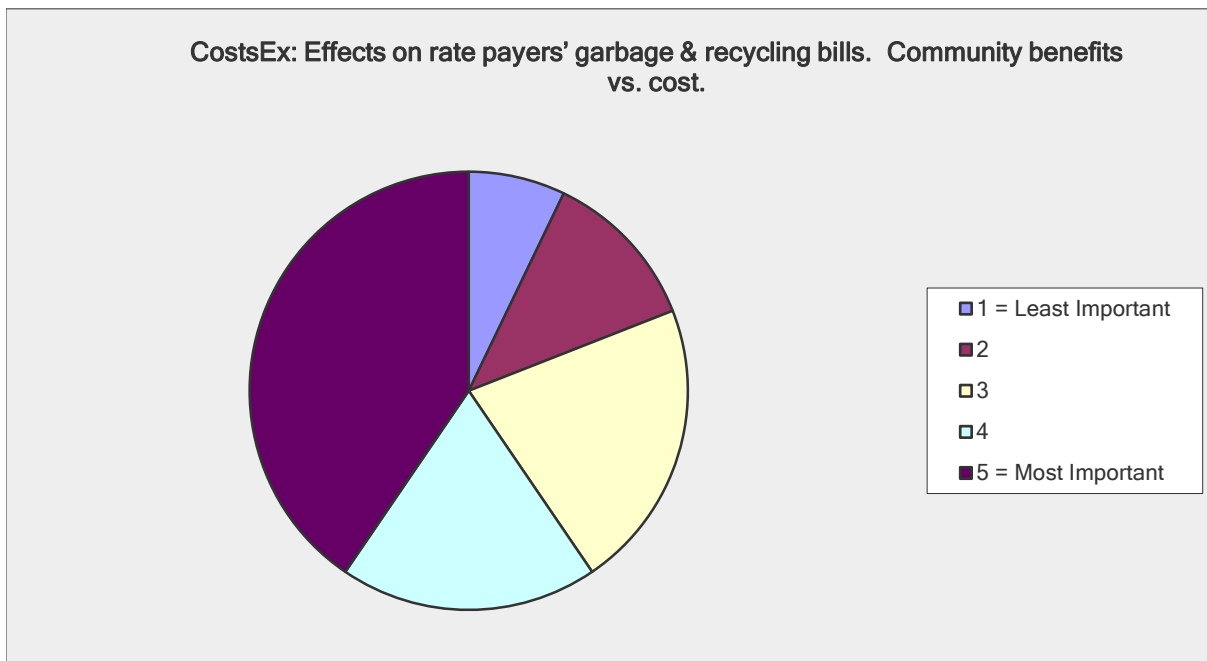
☐ 1 = Least Important  
☐ 2  
☐ 3  
☐ 4  
☒ 5 = Most Important

## Community Feedback Survey - May 2017

**Costs Ex: Effects on rate payers' garbage & recycling bills. Community benefits vs. cost.**

Answer Options	Response Percent	Response Count
1 = Least Important	7.1%	3
2	11.9%	5
3	21.4%	9
4	19.0%	8
5 = Most Important	40.5%	17
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 3.9**

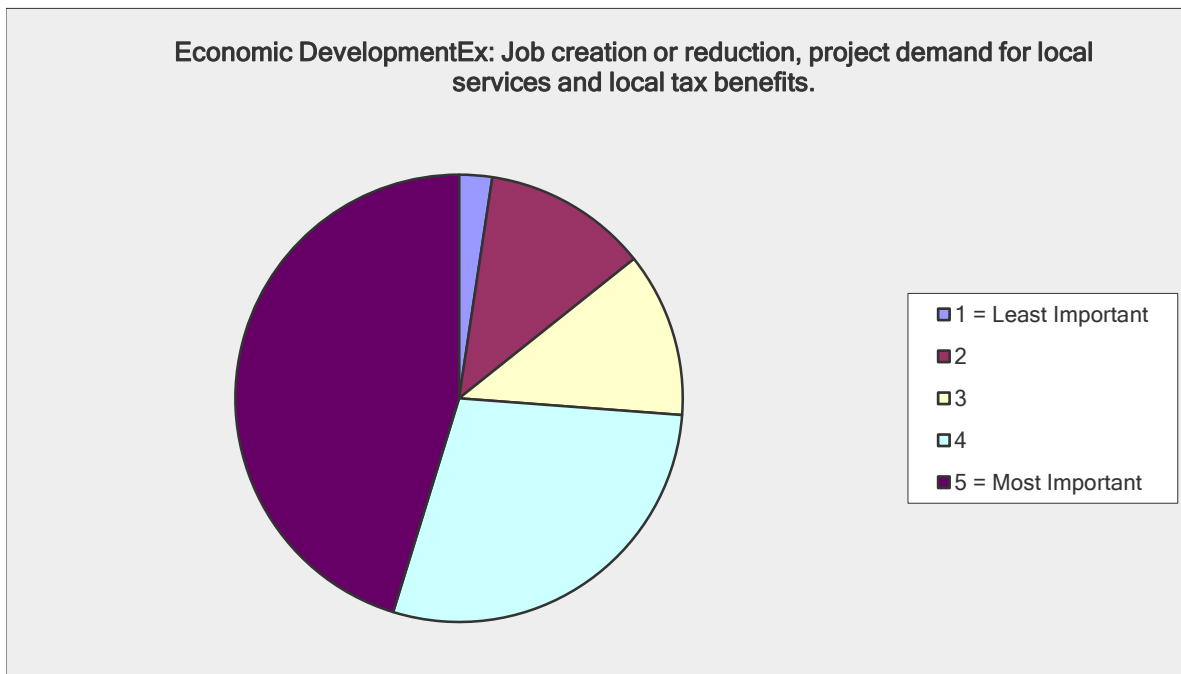


## Community Feedback Survey - May 2017

**Economic Development** Ex: Job creation or reduction, project demand for local services and local tax benefits.

Answer Options	Response Percent	Response Count
1 = Least Important	2.4%	1
2	11.9%	5
3	11.9%	5
4	28.6%	12
5 = Most Important	45.2%	19
<i>answered question</i>		<b>42</b>
<i>skipped question</i>		<b>0</b>

**Average 4.0**



## Community Feedback Survey - May 2017

Additional Comments:	
Answer Options	Response Count
	42
<i>answered question</i>	19
<i>skipped question</i>	23

- 1 The Sun Street "Temporary" Transfer Station is an eyesore and completely unacceptable. Since 2002 it has a tremendous negative environmental and economic impact on the neighborhood. The smell is overwhelming I own the adjacent parcel we experience countless airborne trash and intolerable noise, (illegible comment) on a daily basis. We have lost countless leasing opportunities due to the negative impact of the transfer station. How can a "Temporary" transfer station/open air dump located in the middle of the city run 15+ years.
- 2 The Sun Street location is an inadequate location. Locating a dump in the middle of town and in close proximity to other incompatible business and a concentrated population center is unacceptable. I am one of the owners of the property next door and you have hurt us, the surrounding neighborhood and neighbors severely economically and environmentally.
- 3 I have been moving and remodeling so I have used Marina facility and Salinas facility. I really am impressed with staff at Salinas. Marina is nice but customers service at Salinas is better than commercial establishments through out the community. Kudos to Human Resources!
- 4 Sun Street is a perfect location and the crew there work very hard and shouldn't have to lose their jobs. I know most drivers because as a boy, I befriended Juvenal Alvarado and I followed him all over my neighborhood every Tuesday. Juvenal worked very hard and so do all the drivers and crews. I know because I am a gardener who brings yard waste to Sun Street all the time. I told them when I get this survey that "Juvenal is my friend and I will support you guys" A lot of them all recall Juvenal telling them about me and I want them to A. keep their jobs and B. keep Sun Street open.
- 5 Thank you for allowing public to participate.
- 6 Don't move, leave here. Very vital to community or more littering will occur.
- 7 We love this place, don't take it. :(
- 8 When you come here the people are so nice and helpful even though it's not a fun chore they make it pleasant. Please don't move! I like it here! good location, easy to use, close to my house.
- 9 Project needs to be centrally located in Salinas for customers convenience of use
- 10 1. Must be closed containment facility, no open use areas. 2. Rodent control and mitigation 3. Traffic on 2 lane road impact w/trucks! 4. Trash dropped along access routes or dumped - mitigation How about a frequent "flyer" card gets here compost or a free dump after 10 paid trips?

- There is an urgent need to plan and build a better waste management solution for our community. It is very important that the best available processing treatments for managing waste are part of any plan moving forward. I listened to the presentations and the options of just building in the Sun Street or other existing locations are not suitable to solving the issues for the future of our area. In addition, access and traffic flow are also needed in developing a viable plan for the future. After listening to the presentations and reading on the subject matter, the most viable option is the Harrison Road project. It will account for future growth, provide a technical solution in the clean fiber recovery process, have better access for the public and also have an aesthetically pleasing design.
- It seems to be a common sense issue. One that baffles the mine with the lack of support from local government on this topic. It is undeniable that there is 1) more and more people 2) more and more waste from the people and 3) there isn't a hole big enough to "just keep throwing it in". What the transfer station has done for me and the many others that enjoy it's convenience is make it so "convenient" that my life environment is cleaner and enjoy make the effort to dispose in the sustainable manner.
- It makes the most sense to site facilities where they already exist, are functioning well and have all required permits intact.
- Lets get it done.
- Please keep the Sun & Commission Street Recycling Facility open for Salinas residents use. It is essential in our community to effectively recycle products no longer needed in our community!
- En esta localidad me parece que estan dando muy buen servicio.
- ( *English Translation: In this location I think they are giving very good service.*)
- He asistido a 128 Sun Street a reciclar y desechar desperdicios. Considero de gran ayuda tener in lugar como este cerca de casa, ya que si estuviese lejos la acumulacion de desperdicios en la ciudad seria mayor al igual que en los hogares esto causaria mas "contaminacion"
- ( *English Translation: I have attended 128 Sun Street to recycle and dispose of waste. I consider it a great help to have a place like this close to home, since if it were far t accumulation of waste in the city would be greater as well as in homes, this would cause more "contamination"*)
- La eliminación o cierre de el el lugar causaria mas basura en las calles de la ciudad por los costos de ir mas lejos a tirar los desperdicios.
- (*English Translation: The elimination or closure of the place would cause more garbage in the streets of the city for the costs of going more lazy to throw the waste.*)
- Muy importante para nosotros tener este lugar aqui. por favor no lo quiten.
- (*English Translation: Very important for us to have this place here. Please do not remove it.*)



# Long-Term Facility Needs Project CEQA Survey Results

June 15, 2017

# Survey Design

- Bilingual Survey
- 16 questions: Environmental Impact Categories and Due Diligence Studies
- Rate the importance on a scale from 1 to 5
- Comment Section
- Electronic and Hardcopy





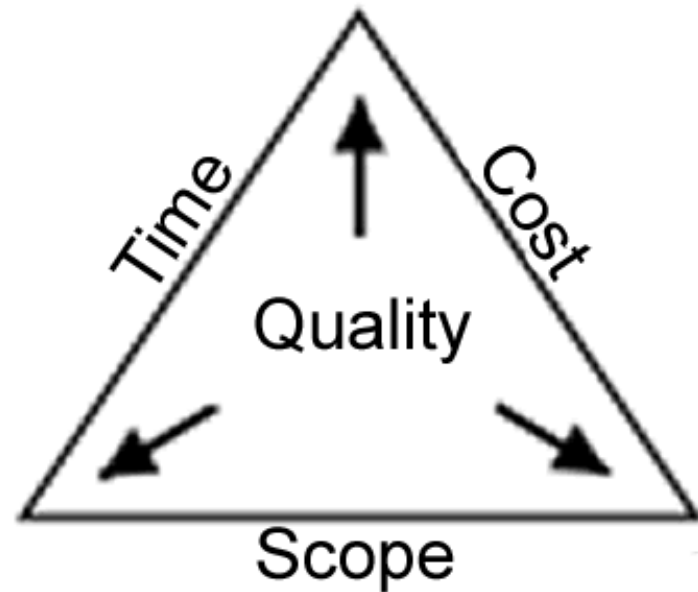
# Environmental Impact Categories

- Aesthetics
- Air Quality/GHG Emissions
- Cultural Resources
- Growth Inducing Impacts
- Hazardous and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise and Vibration
- Utilities & Public Services
- Transportation/Traffic
- Cumulative Impacts



# Impact Categories (*cont.*)

- Legal & Regulatory Compliance
- Waste Reduction, Recycling & Landfilling
- Access to Public Services
- Costs
- Economic Development



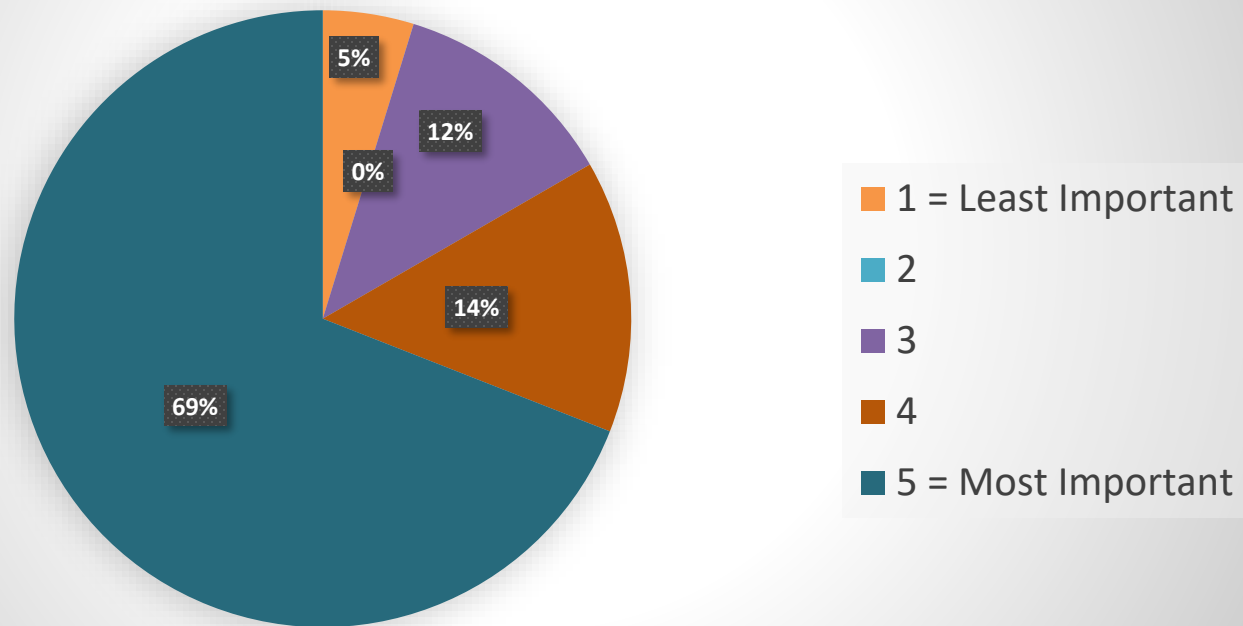
# Survey Analysis

- Total Survey Responses: 42
- Top 3 Categories Ranked Most Important:
  1. Waste Reduction, Recycling and Landfilling
  2. Hydrology and Water Quality
  3. Hazards and Hazardous Materials, Utilities and Public Services, and Legal & Regulatory Compliance



# 1. Waste Reduction, Recycling and Landfilling

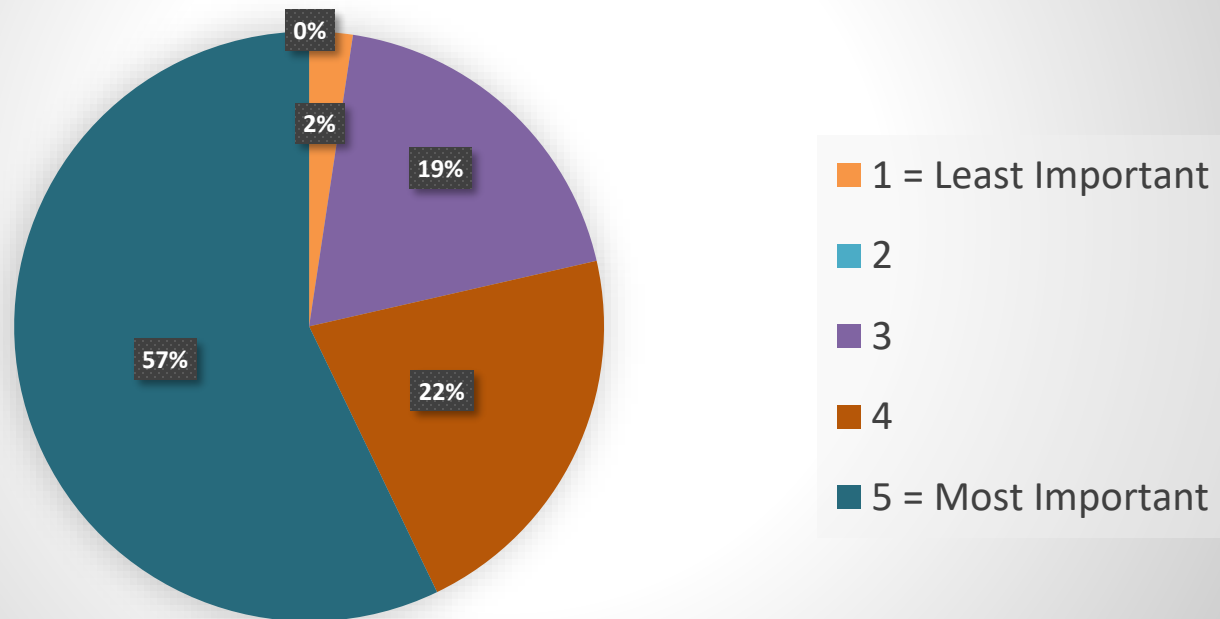
Waste Reduction, Recycling and Landfilling:  
Increasing recycling and reducing landfilling of wastes



## 2. Hydrology and Water Quality

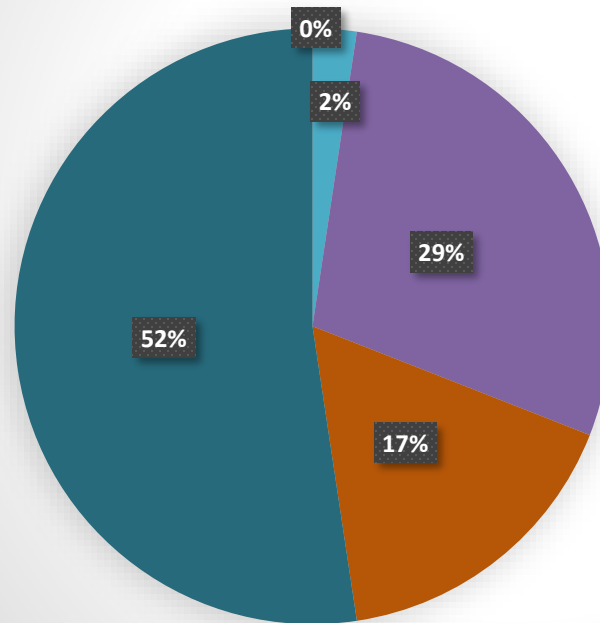
### Hydrology and Water Quality:

Storm water design and water quality. Climate change impacts such as warming temperatures, changes in precipitation, and sea level rise



# 3. Hazards and Hazardous Materials

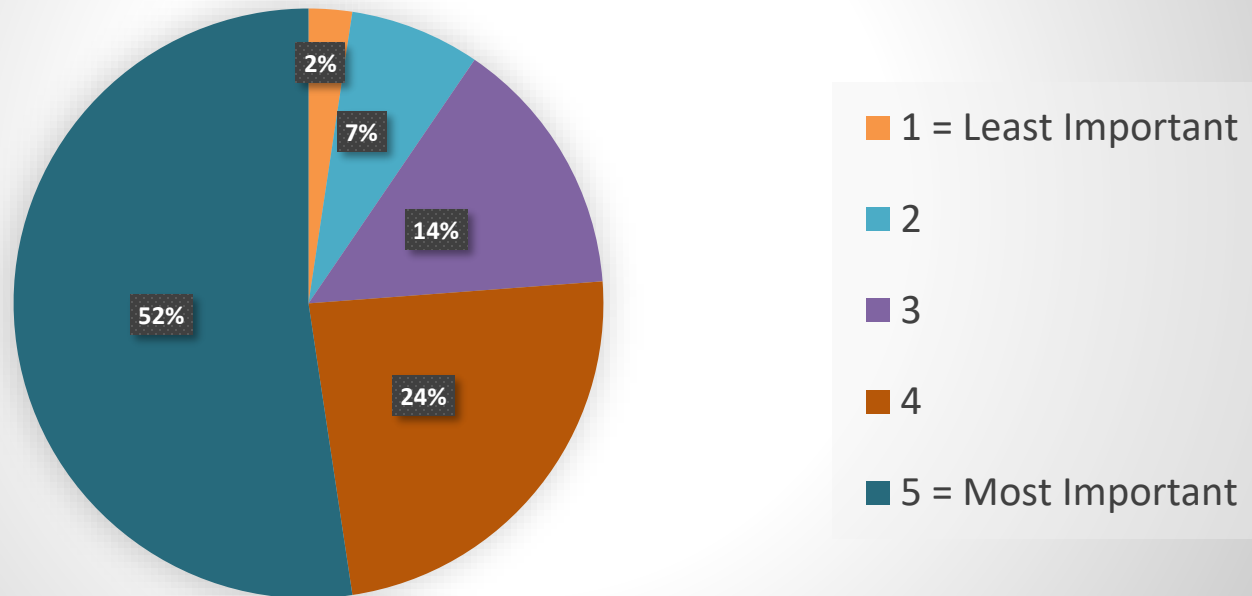
**Hazards and Hazardous Materials:**  
Hazards and hazardous materials associated with short-term construction and long-term operation activities. Onsite household hazardous waste facility



- 1 = Least Important
- 2
- 3
- 4
- 5 = Most Important

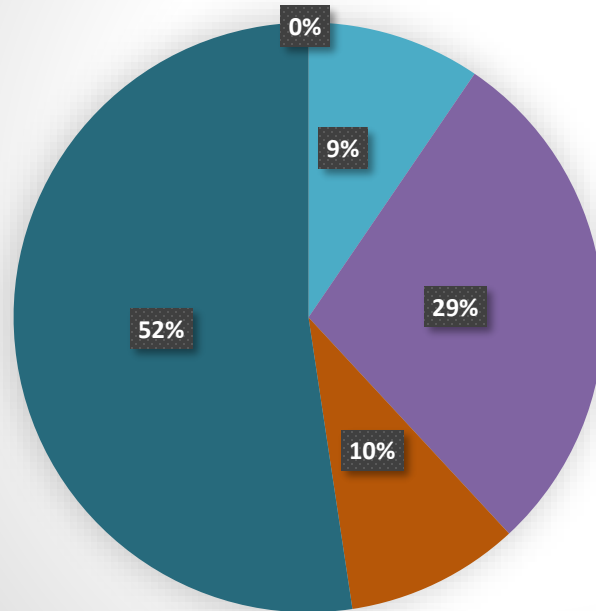
# 3. Legal & Regulatory Compliance

**Legal & Regulatory Compliance:**  
Complying with the environmental and waste reduction laws and regulations of the State



# 3. Utilities and Public Services

**Utilities and Public Services:**  
Impacts to water supply, wastewater collection and treatment, solid waste, police and fire services, schools, and associated infrastructures



- 1 = Least Important
- 2
- 3
- 4
- 5 = Most Important



# Survey Comments

- 19 Comments Received

## Sample Comments:

"The Sun Street location is an inadequate location"

"Sun Street is a perfect location and the crew there work very hard"

"Thank you for allowing public to participate"

"I really am impressed with staff at Salinas"


"The Sun Street 'Temporary' Transfer Station is an eyesore and completely unacceptable"

"Project needs to be centrally located in Salinas for customers convenience of use"

# Questions?



# Thank you

 <p>Report to the Board of Directors</p>	ITEM NO. 13
	N/A
	Finance Manager/Controller-Treasurer
	
	General Manager/CAO
	N/A
	Legal Counsel

Date: June 15, 2017

From: Mandy Brooks, Resource Recovery Manager

Title: De-packaging Equipment Research

#### RECOMMENDATION

Staff recommends that the Board accept the report on de-packaging equipment research.

Keeping organics out of the landfill is not only a state mandate, per AB 1826 and SB 1383 but will also help achieve Salinas Valley Recycles' goal of 75% diversion.

#### STRATEGIC PLAN RELATIONSHIP

The report on the de-packaging equipment research supports Salinas Valley Recycles' (SVR) Strategic Goal to "Select and Implement Facilities (Salinas-Area Materials Recovery Center) and Programs that Lead to Achievement of at Least 75% Waste Diversion".

#### FISCAL IMPACT

There is no direct fiscal impact as a result of this item.

#### DISCUSSION & ANALYSIS

As a Six-Month Strategic Objective, staff was asked to provide a report to the Board on de-packaging equipment research to assist with the diversion of packaged or bagged produce by the agricultural companies and other food waste generators.

As presented at the April 2017 Board meeting, SVR has been exploring the expansion of the current organics recycling operation to achieve the levels of diversion and greenhouse gas emission reductions required by various state mandates; Mandatory Commercial Organics Recycling Program (Assembly Bill (AB) 1826) and Short-Lived Climate Pollutants and Methane Emissions Reduction Strategy (Senate Bill (SB) 1383), which effectively eliminates the disposal of organic materials (including food scraps) in landfills by 2025.

Based on AB 1826 outreach conducted by staff, packaged and bagged ag produce (salad, lettuce, vegetables, fruits, etc.) has been identified as a majority of the organic waste still being landfilled. SVR has been working with the large agricultural generators to divert more of the edible produce to the Food Bank for Monterey County but it is estimated that over 4,700 tons of bagged produce continue to be disposed of on an annual basis at the Johnson Canyon Landfill.

There are several companies that manufacture de-packaging equipment, each with their own slightly varying operating systems (a list of company comparisons is included in Attachment 2). Staff has been researching Scotts Equipment's **Turbo Separator** due to its **system's ability** to consistently remove products from the packaging and separate into two clean streams allowing for organics processing and/or recycling. Through a combination of centrifugal forces, self-generated air flow and mechanical action, up to 99% of dry or liquid materials can be removed from the packaging.

In March 2017, staff attended a tour of **Seacliff Energy Corporation's (SEC)** facility just outside of Toronto, Canada. SEC is currently using a T42 Turbo Separator, the largest of the available models, to process 100 – 200 tons per day of source-separated packaged waste from residential, commercial and industrial customers. The T42 Turbo Separator has been reliably operating at **SEC's facility** for over three years with no routine maintenance. The separated organics are then used in an anaerobic digester to generate power for the adjacent family farm and to heat **the farm's green houses**.

The Scotts Equipment's Turbo Separator was also highlighted in a recent BioCycle magazine article (see Attachment 1). The E.L. Harvey Company has been operating a T42 Turbo Separator since Fall 2016 at their transfer station facility in Massachusetts and is processing about 100 tons per week of packaged or contaminated food waste streams. According to the article, an operating issue of their unit has been clogging at various points but the unit works well with consistent feedstock. **Based on E.L. Harvey's facility** experience in operating the T42, they do not process any frozen foods (must be thawed) or food packaged in glass jars or containers in the unit. Small broken pieces of glass contaminate the separated organic product making it unacceptable for composting or anaerobic digestion.

Staff also researched other equipment options and attended a demonstration of **Komptech's Crambo, a mobile shredding unit, at Monterey City Disposal's Ryan Ranch** yard in Monterey on March 2. While the shredding unit does reduce the volume of the bagged salad that was ran through it, it does not isolate the organic products from the packaging so additional screening would be needed to separate and/or clean the materials for composting, anaerobic digestion, or further processing.

**SVR's CalRecycle Organics Grant** application budget included the purchase of a mid-sized T30 Turbo Separator. The T30 system was quoted at approximately \$273,000 and is rated up to 10 tons per hour for de-packaging ag produce and other packaged foods. The T30 and T42 are functionally the same machine but the T42 can process more material per hour. While the materials processed in the Turbo Separators mentioned above are being utilized for anaerobic digestion, SVR would provide the separated organic materials to Vision Recycling for composting (via aerated-static piles) at Johnson Canyon. CalRecycle is expected to release the Grant Awards in July or August 2017.

## BACKGROUND

Organics processing is the single largest diversion activity for SVR with approximately 32,000 tons diverted annually. For over 15 years Johnson Canyon Landfill has accepted green waste (yard trimmings, grass clippings, leaves, etc.) and wood waste as part of the chip and grind operation. SVR contracts with Vision Recycling to divert and process the green waste and wood waste by turning it into compost feedstock, mulch, wood chips and soil amendment that is sold as high quality landscape materials. As part of the

contract, Vision is developing a rate to offer full composting services including food waste as a feedstock.

SVR's CalRecycle Organics grant application included the required site improvements at Johnson Canyon Landfill (engineered operations pad and lined sedimentation pond) to expand the current green waste processing facility into the first full-scale food waste composting facility in the Salinas Valley. The grant would also fund the purchase of a refrigerated truck for the Food Bank for Monterey County to increase the recovery of edible food and as mentioned above, de-packaging equipment to remove packaging material from agricultural produce (lettuce, vegetables, fruit, etc.), allowing the organic materials to be composted and the removed packaging to be recycled or landfilled.

In addition to the inclusion of food waste in the composting process, the overs, leftover woody debris from the pre-processing of compost, would be needed as a carbon bulking agent to reduce odors and add structure to the compost, thereby reducing the impact of use as Alternative Daily Cover (ADC) in the landfill. The overs are the only materials still being used as ADC due to the closure of several biomass facilities and significant surplus of material statewide.

As noted in the monthly member and interagency activities reports to the Board, SVR has pursued a solid waste facilities permit revision for Johnson Canyon Landfill to add a composting operation to the site including using food waste as a feedstock. At the April Board meeting, the Board adopted the Negative Declaration as a result of the California Environmental Quality Act (CEQA) analysis of potential odor and vector impacts of adding food waste as a feedstock for the composting operation at Johnson Canyon Landfill. Staff filed the Notice of Determination with the State Clearinghouse and County to commence the 30-day posting period without comment, and has re-submitted the permit revision application to the Local Enforcement Agency. The LEA has a 60-day timeline to review the new documents, and then the permit package goes to CalRecycle who has an additional 60 days to review the permit application. The completion of the permit revision is anticipated to be no later than September 2017.

#### ATTACHMENTS

1. Attachment 1: BioCycle Article, May 2017, *Depackaging at Solid Waste Transfer Station*
2. Attachment 2: BioCycle Article, June 2012, *Depackaging Organics to Produce Energy*



# Depackaging At Solid Waste Transfer Station

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*A Massachusetts trash hauling and recycling company invested in a mechanical separation system for food waste, opening up outlets for the processed material.*

**Bob Spencer and Morgan Casella**

BioCycle May 2017, Vol. 58, No. 4, p. 21



Storage area for packaged dry foods such as bread and cereal, to be loaded into the Scott Turbo Separator, and recovered for animal feed. An entire pallet of packaged food, inside a large cardboard box, can be tipped into the hopper for processing. Photo by Bob Spencer

The Commonwealth of Massachusetts' ban on disposal of commercial and industrial organics has created a market for technologies that can remove packaging from spoiled and damaged food, whether it is plastic film, cardboard boxes, or plastic containers. E.L. Harvey & Sons, Inc. is a fourth generation trash hauling and recycling company based in Westborough, Massachusetts. With many supermarket customers, as well as food manufacturers, Ben Harvey, Vice President, explains that the company has been evaluating mechanical separation technology for several years, starting with a number of composting facilities where it takes collected food waste.

"We had hoped one of our composting partners would have made the investment, but they were not convinced there was a consistent supply of packaged food to justify the investment," notes Harvey. "We toured the Exeter Agri-Energy anaerobic digester (AD) facility in Exeter, Maine, which has a Scott Turbo Separator, and were impressed with the capabilities of that machine to remove packaging, and produce a slurry acceptable to the AD facility."

E.L. Harvey operates a comprehensive recycling facility at its site in Westborough, including a transfer station where food waste is consolidated into larger loads and taken to several composting facilities, as well as a construction and demolition debris processing plant, a single stream MRF, and an asphalt, brick and concrete crushing operation. However, its permits from the Massachusetts Department of Environmental Protection (MassDEP) do not allow on-site composting, so collected food waste and yard trimmings have to be transferred from this site.



To process packaged and/or contaminated food waste streams, E.L. Harvey invested in the largest of three Scott Turbo Separator models, the T42. The system includes a feed hopper, twin-screw conveyor, stand and work platform, the separator, and a discharge conveyor. It was installed in late fall 2016 in an enclosed area next to the trash transfer station. Approximately \$400,000 was invested in the equipment and system installation, and at the time of a tour in early March, the unit had about 250 hours of operating time. On average, E.L. Harvey is processing about 100 tons/week through the separator, which has the capacity to process 18 to 20 tons/hour.

## Depackaging Steps

The major steps in the E.L. Harvey food waste processing system include:

- 1** Loading the feed hopper
- 2** Twin flight screws start to break up containers and feed material into separator
- 3** Operators decide if liquid should be added depending on desired product
- 4** Partially ruptured packaging drops into separator, which is a horizontal shaft with flat paddles that liberates the organics, which in turn fall through the screen. Packaging is retained, exiting the end of the machine
- 5** Food product is conveyed into a tank to be pumped into a truck, or into a roll-off container if it is animal feed, or composting feedstock.
- 6** Separated packaging is conveyed into a hopper where it is then taken for disposal.

## Recycling Outlets

The company is able to prepare the food waste it processes for the most appropriate recycling outlet, which include animal feed, slurry for anaerobic digestion, and a semisolid material for composting. "Our location in central Massachusetts allows us to recover packaged food waste through the Scott Turbo Separator and we have been shipping it to anaerobic digesters located in Rutland and South Hadley, Massachusetts, with most going to the Exeter, Maine facility," explains Harvey. "Our experience has been that the AD facilities are not always available to receive food waste due to many factors, and therefore, we can also produce a drier slurry that is hauled to composters, or we can produce a product that goes to a local company that makes animal feed." He adds that E.L. Harvey is working to establish a value for the material, but at least it is not paying a tipping fee when sent to feed.



Twin screws in the bottom of the feed hopper (left) tear open cardboard boxes and other containers while conveying the contents to the separator. Access doors on the separator (right) allow removal of material that may jam the internal paddles, and enable entry for cleaning, maintenance, and adjustment of the screen and paddles. Photos by Bob Spencer

During a visit to the preprocessing operation, stockpiles of bread and cereal in various forms of packaging, destined to be converted into animal feed, were observed. Off-spec yogurt and salad dressing in plastic containers had been processed and the high-energy liquid contents pumped into a nearby tanker truck to go to an AD facility.

Food packaged in glass bottles and jars is not processed since the pieces of broken glass will contaminate the product. "We saw a separator in Minnesota that was processing products packaged in glass, but the final material



contained too much glass for the composters and AD facilities we work with," explains Harvey. "We also do not process frozen foods since they are too hard for the equipment to break apart, therefore we have a bin where we thaw frozen food before introducing into the equipment."

Harvey estimates that residual packaging separated from the food is approximately 10 percent of the input by weight, and is generally not acceptable for further recycling due to contamination with food waste. It would require additional cleaning/drying to make it suitable, something that is not economically viable at this time.

Currently, two people operate the separator, one to load the hopper and manage the output, and another to operate the separator, which involves adding the appropriate amount of liquid, and making sure the separator is not overloaded (see Box). The amperage on the Turbo Separator shaft is closely monitored in order to not overload the unit. As amperage approaches levels that indicate clogging may occur, the operator backs off the infeed rate of the twin flight screws. Harvey notes that clogging of the unit at various points has been an operating issue, but they are getting more experienced at preventing jams in the conveyors and screw.

He adds that the unit works well with consistent feedstocks, particularly yogurt, soup, potato chips, and salad dressing, and yields excellent energy sources for the AD plants. One pallet of packaged yogurt typically weighs about 1,600 pounds. To reduce operating costs, the company plans to use recycled wash water from a large industrial washer used to clean Totes as make-up water for the separator.

Since E.L. Harvey has a MRF, a decision has to be made whether a large cardboard container is worth the time required to remove the contents before loading into the hopper. Generally, the entire pallet is tipped into the hopper so the cardboard is not recycled.



Residual packaging consists primarily of cardboard, plastic containers, and film plastic, and is typically too commingled for further recycling (left). Tanker trucks (right) are parked adjacent to the separator so liquid food waste can be loaded for transport to AD facilities in Maine and Massachusetts. Photos by Bob Spencer

Depending on the product coming out the backend of the separator, if it is not suitable for animal feed, it goes to AD or composting for a modest tip fee. Harvey said that if an AD facility is not accepting the material, the company works with composters who make a moat out of leaves and other dry materials, and incorporate the wet slurry into the composting process.

Future plans include installation of a 20,000-gallon storage tank for the liquid destined to AD facilities, which will allow tanker trucks to be filled when they pull in rather than have a truck parked for a number of days until a full load can be produced.

Harvey points out that in order to take advantage of the processing capacity of the separator, it will be important for MassDEP to continue education and enforcement of the organic waste ban to the food manufacturing and distribution industry.

**Bob Spencer** is a Contributing Editor to BioCycle. **Morgan Casella** is with Dynamic Organics.



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Tags: [Composting](#), [Food waste](#)

This entry was posted on Thursday, April 27th, 2017 at 3:40 pm and is filed under [Current Issue](#), [Home Page - Featured Rotating](#), [Uncategorized](#). You can follow any responses to this entry through the [RSS 2.0](#) feed. Both comments and pings are currently closed.

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# Depackaging Organics To Produce Energy

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*Systems designed to separate packaging from its contents — in this case food and liquids — are being installed at facilities in the U.S. and Canada.*

**Dan Sullivan**  
**BioCycle June 2012, Vol. 53, No. 6, p. 42**



Depackaging equipment for recovering organics is designed to deal with a variety of materials from plastic wrapping and containers, to wax-coated cardboard and even metal cans and glass bottles.

**When packaged food expires or is otherwise unfit for sale or consumption,** disposal can become a

costly burden for the manufacturer or retailer.

According to one industry insider, it's not uncommon for a large food processing manufacturer to send up to 20 tons of packaged food waste to the landfill daily, due to one problem or another with either the packaging itself or with what's inside. But that is an ever more costly proposition, both in terms of the company's bottom line and increased awareness of such practices' environmental toll.

Across Europe, where directives to phase out landfilling of unprocessed organics are in place, the use of depackaging equipment to capture the organics — and sometimes the packaging material around it — for composting or energy production has become standard practice. In the U.S. and Canada, utilization of depackaging and preprocessing equipment for handling packaged food waste is also gaining traction. The practice is bolstered by a growing number of large

retailers' ambitious zero waste policies in tandem with growth in anaerobic digestion (AD) projects to process the material. Each depackaging system works a bit differently, and most can be tailored to clients' needs.

"We've been at this only about six to eight months in the U.S., and we're still learning the market," says Pete Lyle of The Dupps Company, a 75-year-old Ohio-based manufacturer of rendering equipment that operates in partnership with Netherlands-based Mavitec to make and market rendering and depackaging equipment across the globe. Mavitec has developed and installed more than a dozen systems related to biogas projects outside the U.S., according to Lyle. The first depackaging system went online in the U.S. just a few months ago at a project run by quasar energy group in Zanesville, Ohio. "There is a lot of interest in depackaging, mostly from third-party waste haulers contracted to take organic materials from large retailers," he adds. "This is because companies like Kroger and Walmart have established zero waste goals and want a quick solution. We also receive inquiries from food production companies that generate anywhere from 5 to 20 tons/day of packaged food waste that is either mislabeled or else something is wrong with the food product or packaging itself and it needs to be disposed."

In Europe where the market has evolved for more than a decade, these recovered organics have become a marketable commodity, notes Mavitec Green Energy Sales Manager Bob Schoenmaker. "Everyone is fighting over the organic material, and they are willing to pay for it." The amount digester operators are willing to pay depends on the dry solids content. "If it has a high dry solids content, they will pay more than if it has a lot of moisture," he explains. "Fruit and vegetables are typically about 90 percent moisture. They prefer the tacky, sticky product — bakery waste, potatoes, meat and fish. Most of the time, higher dry solids means a higher gas yield." The average supermarket mixture will produce between 350 and 500 cubic meters of gas per metric ton of recovered feedstock depending on the load, he says, compared to a metric ton of fruit waste, which yields about 150 cubic meters of biogas.



Depackaging equipment has evolved to handle all types of materials, from coated cardboard and plastic to metal cans and even glass bottles. "Glass and metal require higher maintenance; glass will splinter inside the transport conveyors and the separator press and may discharge through the main cage of the press with the organic sludge," says Schoenmaker. Successful recovery of the packaging itself occurs case by case. "It depends on the variety of packaging," he adds. "If it's just one type it's possible to reclaim the value, but most of the time it's a mix."

In The Netherlands, where Schoenmaker says more than 100 biogas projects are actually mandated to accept food waste, depackaging systems are typically installed either at food processing plants, the biogas project, or at third-party recycling businesses that collect, recover and then sell the organic material. One Netherlands-based company, which produces packaged and bottled mayonnaise, catsup and other sauces — as well as a lot of organic waste during the process— installed a Mavitec depackaging system at its plant and is paid up to 10 euros (\$12.35 U.S.) per ton for its packaging (all made from the same material) while selling its organic waste stream directly to a biogas plant.

## A Developing Market

Doda Snc in Italy makes equipment that takes mixed residential and commercial waste and separates the organics from the nonorganics (see "Prepping MSW Substrates For Anaerobic Digestion," August 2008). Its subsidiary, DODA USA, Inc., has several systems installed in the U.S. and Canada. These include the company's Bio Separator, which is capable of receiving a high-volume mixture of packaged and nonpackaged food waste. "If it contains a fairly large amount of organics, we will separate the packaging from the organic part and create an organic pulp, which can be used to make compost, or feedstock for anaerobic digesters or, depending on the waste processed, for whatever the client decides," explains Philip Wessels of Minnesota-based DODA USA, Inc.

One fairly new client is Clean World Partners, which is installing Doda equipment in its second industrial-scale food waste to energy project, the South Area Transfer Station Biogas Energy Plant in Sacramento. "We selected Doda because the equipment is already in use in similar applications," says Kathryn Oliver, Clean World Partners' environmental engineer. While the wet Bio Separator depackaging system is typically fed with a front-end loader, which Oliver says is labor intensive, "we designed a system whereby trucks can dump the material into a pit and it's augured directly into the unit. It's fully automated. The driver only needs to turn it on, and material is metered in at a rate the Doda can process." While that rate is dependent on the type of feedstock, it's expected the unit will be able to process 25 tons/day (tpd) of packaged organics within an average of about four hours.

A1 Organics based in Eaton, Colorado, installed Doda equipment to preprocess packaged food waste. "We take the bulk depackaged food waste to our composting site, blend it with prepared bulking agent and process it in aerated windrows," says Bob Yost, A1's Vice President and Chief Technical Officer. When asked about challenges related to food waste management, Yost replied that plastic contamination is the biggest barrier. "It is difficult to remove and small amounts may end up in your finished product," he notes. "The Doda helps remove it before the composting process." He provides the example of material A1 picks up from a processor that is packing foods for King Soopers, Albertsons, Safeway, Walmart, Sams Club, etc. Some of their waste may still have packaging associated with it, such as a head of lettuce still in its plastic wrap. The Doda separates the food waste from the plastic using a mechanical and hydro process; the liquid stream then goes through the Bio Separator to remove the plastics, thus creating a clean feedstock for composting.

"The Doda is installed at our receiving area in Denver, where trucks enter the facility," says Yost. Material is unloaded directly into the initial processing vault, which has a 40,000-gallon capacity. After processing, the



A Doda wet system Bio Separator (1) installed at A1 Organics in Denver depackages incoming organics into a slurry (2) consisting of about 10 percent solids, which gets mixed with bulking agents (3) for composting in windrows.



slurry (about 10 percent solids) is hauled to A1's composting site. "The slurry is mixed with bulking agents with a front-end loader in an engineered mixing basin along with other feedstocks," he adds. "The mixture is then placed in windrows by the front-end loader." The liquid slurry could be sprayed on the windrows; A1 is looking at options to do that. Water removed in the Bio Separator is returned to the vault and remixed with additional incoming material. "At times we have to add supplemental water," explains Yost.

## Investing In The Future

Quasar energy group operates two anaerobic digesters in Zanesville, Ohio. Its wet digester, designed to produce 1 MW, is piloting the Dupps Food Waste Depackaging System. "We started processing loads in early spring," says Mark Suchan, Quasar's Biomass and Logistics Manager, adding that so far packaging has included plastic, cardboard and Mylar bags. "We'd like to try metal cans. We're testing out the system and what it's going to do."

Feedstocks have included concentrated juice mixes, dairy products and fruit drinks. "It's been all liquid up to this point," he notes. "We're looking at dog food. Before we marketed our services, we wanted to make sure it was working well. It's more labor intensive than I thought it would be. If we want to recover the packaging for recycling, we have to separate everything [by packaging type], and that often means small, short runs." Even homogenous materials such as milk can present challenges when considering that the container might be a 1-gallon plastic jug or an 8-ounce waxed cardboard container. "It's tough to design something that's a one-stop shop for everything that gets thrown at you," says Suchan.

The depackaging process begins with loading products into a hopper. An auger moves the material up to a hammer mill where the packaging is coarsely ground and augered to the organics extruding screw press. "Here, a plug forms on the back end of the screw press with the inorganic packaging material, which allows the liquid to be extruded out and pumped into 24,000 gallon receiving pits," says Suchan. "This step allows the 'squeeze' to take place so as many liquids are removed during the process as possible. As the pressure builds, the plug is released and the inorganics fall into the materials bin for disposal. The packaging can then be run through a drum washer — we do not currently have this set-up at the plant — allowing it to be recycled." The wash water from this drum would also be pumped to the receiving pit. The system can process 3 to 5 tons/hour, depending on a host of variables such as product density and solids content. "On average, 93 to 95 percent or more of the organic product is recovered in our tests. With the wash water you get closer to 97 to 98 percent or more, but you are also adding water to the organic product."

The new dry digester technology developed in partnership with Ohio State University, combined with the wet digester already in place, will help Quasar's Zanesville facility capture more organics for energy — including corn stover, wood waste, green waste and pallets, says Suchan. Material in the dry digester will be inoculated with effluent from the wet digester system. The only packaging Quasar is currently recovering and recycling is cardboard for processing in its dry digester. "As for plastics, we don't have enough volume to bale and recycle," he adds. "We would have to keep No. 1 separate from No. 7, and everything in between. If we continue with this process, we will have to get into doing that."



A Dupps Company Depackaging System (above) consists of a shredder (1), a press (2) and a washer (3). Organics exit the press (4).

## On-Line At Ontario Digester

Seacliff Energy in Leamington, Ontario, Canada, is a 1.6 MW anaerobic digestion project that flipped the switch in January 2011 (see "Greenhouse Grower As Digester Entrepreneur," June 2011). All of its power is sold to the grid and the company buys back what is required to heat its 6.5 acres of commercial greenhouses. On the





Quasar energy group's 1MW Zanesville, Ohio, facility includes a wet digester as well as a dry digester developed in partnership with Ohio State University.

Feedstock at the Seacliff project is currently mostly grocery store waste with containers running the gamut from 20-liter plastic pails and clamshells to waxed cardboard produce boxes and plastic packaging. Materials are off loaded in a 180-foot by 80-foot by 47-foot high building. The receiving pit holds up to four 52-foot trailers worth of combined packaged and nonpackaged organics. A clamshell picks up about one ton of material at a time and drops it into the hopper of the depackaging system. Screw augers convey the feedstock to the Turbo Separator, where rotating paddles smash the material. Organics fall through underlying screens, and contraries (the packaging and other contaminants) are pushed to a chute with a screw auger that transfers them to a bin. Water is added to the bin to clean the contraries as they move through the separator cylinder. "The separator can handle 100-ounce cans, 20-liter plastic pails, plastic packaging, small bits of wood, bone and glass," says Dick. "Pallets and steel pieces are not something we can put through the equipment." He notes that the system is able to capture about 91.5 percent by weight of the packaging.

The organic slurry from the separator — about 20 percent solids — is pumped to one of two storage tanks (each with 26,400-gallon capacity). The tanks empty into the pretreatment phase of the digester process. "Incoming material is processed the same day — the fresher the better," adds Dick. "We want to get all the gas potential available. We are currently processing grocery waste, but product destruction — we can offer the security that companies need that their product will indeed be destroyed — is becoming more and more prevalent as companies realize the services we have to offer."

The liquid digestate is sold as fertilizer under a label certified by the Canadian Food Inspection Agency. The solids are sold as animal bedding and to a local garlic producer for mulch. The University of Guelph nearby is also testing use of the unseparated digestate on neighboring farms. "We like to work collaboratively here in our neck of the woods," Dick says of the region known as Canada's Sun Parlour. "The project has generated a lot of excitement, and we've formed some good partnerships."

front end of the digester facility is a mammoth depackaging system from Scott Equipment Company. "It's a standard Scott Turbo Separator," says Dennis Dick, who runs Seacliff with business partner Roger Tiessen. "They increased it for our application, and it's the largest installation they've done. It is designed for 15 tons/hour, and we are actually putting through 20 tons. It works better than advertised."

Scott Equipment has a few projects going on in the states for separation of packaging from organic matter, says Sales Manager Pete Calderon, "but we see a lot more activity in Canada." Government grants on one end and tipping fees on the other help make current projects in the U.S. and Canada economically viable, he adds.



Scott Equipment's Turbo Separator may be scaled for a variety of applications and can reclaim up to 99 percent of dry or liquid products from their packaging.

## Equipment Designs And Operation

### Dupps Company Depackaging System

- Packaged material can be fed to the system via a manually loaded inclined conveyor or a larger raw materials bin, depending on volume of product to be processed.



- A shredding system utilizes internal swing-hammers designed for material size reduction and initial separation of nonorganic from organic material.
- A screw press finalizes separation.
- Organic material, or "pressate," is released from the press as a viscous material ready for anaerobic digestion.
- Inorganic waste is released from the screw press and either disposed immediately or cleaned in an optional washing drum and recycled.
- System processes up to 350 cubic feet/hour of packaged food waste, depending upon proportion of organic to nonorganic material in the feedstock.

#### **DODA USA Bio Separator**

- A serrated oscillating auger moves back and forth inside a vault and tears packaging. Agitation helps separate food from plastic.
- High-speed recirculating pumping also helps separate packaging in vault. Heavier inorganics sink to the bottom and are manually removed periodically.
- Food waste bearing slurry is pumped from the vault into screen-type Bio Separator, where light plastics and debris are removed.
- Packaging and light debris that are removed are deposited in container and disposed. Slurry is pumped to a transport tanker and may be composted or anaerobically digested.
- Doda also manufactures an industrial-scale dry system Bio Separator, as well as a smaller scale CUBE Bio Separator, which is suitable for grocery stores or large restaurants.

#### **Scotts Equipment Turbo Separator**

- Packaged organic waste material is dumped into a truck receiving pit. Operator utilizes clamshell scoop to feed material from receiving pit into surge hopper. Conveyor from surge hopper directly feeds Turbo Separator.
- Rotating shaft with paddles in Separator opens up packaging, separates organics from packaging and conveys packaging out of machine. Recovered organics are collected in a hopper.
- Contraries (packaging) are conveyed by auger into receiving bin and recovered organic stream is conveyed to nearby tank via pump.

Tags: [Anaerobic Digestion](#), [Food waste](#), [Organics](#)

This entry was posted on Friday, June 15th, 2012 at 5:29 pm and is filed under [Home Page - Featured Rotating](#), [Uncategorized](#). You can follow any responses to this entry through the [RSS 2.0](#) feed. Both comments and pings are currently closed.

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**SVR Agenda Items - View Ahead 2017**

Item No. 14

	24-Jul	Aug	Sep	Oct	Nov	I-Dec
<b>A</b>						
1	QTE June Cash & Investments	A. Minutes 6/15/17 B. Minutes 724//17	Minutes	Minutes	Minutes	Minutes
2	<b>RETREAT STRATEGIC PLAN 6-MONTH OBJECTIVES</b>	Claims/Financials (EC)	Claims/Financials (EC)	Claims/Financials (EC)	Claims/Financials (EC)	Claims/Financials (EC)
3		Member Agencies Activities Report	Member Agencies Activities Report	Member Agencies Activities Report	Member Agencies Activities Report	Member Agencies Activities Report
4		Strategic Plan Update	Strategic Plan Update	Strategic Plan Update	Strategic Plan Update	Strategic Plan Update
5		2nd Qtr Tonnage & Diversion Report	New FY Grants & CIP Budget (EC)	LTFN EIR Qtrly Update (sp)	3rd Qtr Tonnage & Diversion Report	Annual County Used Oil Report
6		QTE June Cash & Investments	<b>2016-2017 SVR Annual Report</b>	QTE September Cash & Investments	Fund Balance Reserves (EC)	Reserves Allocation (EC)
7		QTE June Facilities Customer Survey		QTE September Facilities Customer Survey	Audit Report Previous FY (EC)	Audit Report (EC)
8		Annual Tonnage & Diversion Performance Report		Annual County Used Oil Report	New Officers Nominating Committee	GM Evaluation
9		Organizational Change Discussion (EC)		COI Code updates	GM Evaluation	
10		Policy on Referrals for Future BD Items & Staff Activities		BD/EC Meetings Schedule		
11		Management and Non-Management MOUs		CAG Annual Report		
12				Annual Franchise Haulers Performance Rpt		
13						
14						
15						
16						

Consent

Presentation

Consideration

Closed Session

[Other] (Public Hearing, Recognition, Informational, etc.)

(EC) Executive Committee

(sp) Strategic Plan Item