

Earth Day

APRIL 22

2020



50th
Anniversary
1970 – 2020

2020 THEME:
Climate Action



For an electronic copy
go to: [www.ventura.org/
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Earth Day 2020

THEME:

Climate Action



2020 signifies the 50th anniversary of the first Earth Day celebration, which began in the United States, and quickly spread to other nations around the world. Now more than ever, we need to take action on climate change, as this represents the greatest challenge to the future of humanity and the life support systems of the Earth.

When Earth Day first began on April 22, 1970, 20 million Americans – 10% of the US population at that time – came out in force to protest environmental ignorance, and demanded a way to make a change. This led to the passage of landmark environmental laws, and the creation of The Clean Air, Clean Water and Endangered Species Acts, as well as the genesis of the Environmental Protection Agency. Many countries around the world quickly adopted similar laws.

In 2019, the national nonprofit Keep America Beautiful® and the global coordinator of Earth Day known as Earth Day Network formed a partnership to promote keeping America and the world clean, green, and beautiful, as well as promoting each other's network or partners, affiliates, and volunteers. Today, the Earth Day Network collaborates with more than 50,000 partners and organizations in 190 countries. More than 1 billion people around the globe are involved in Earth Day activities.

Earth Day 2020 needs to be an historic moment when people around the globe rise up in a united call for greater global ambition to tackle our climate crisis. Unless every country steps up to do their part to achieve a zero-carbon future, we will be consigning current and future generations to a dangerous future, with a loss of biodiversity, climate change, and plastic pollution.



Cyndy Taschman,
Earth Day Project Coordinator

Contents

SECTION 1 Security/Special Services	7
GSA is Going Green, Green, Green, in Everything	8
Room Reservation Program – Billing Process Improvement	10
Special Use Permit Process	11
Temporary Parking Permits	11
Parking Permit Application Process (E-Form)	12
Bike Locker Permit Process (E-Form)	13
Changing from Fax Machines to Scanners	14
Maintenance Work Orders/Incident Reports	14
Room Reservation Process Improvements	18
Improving the Process for Room and Equipment Set-Up	21
E-Kiosk Meeting Notifications	21
Parking Placard Process Improvement	21
Electronic ID Badge Process Improvement	22
Security Training Certificates	22
 SECTION 2 Grounds Improvements	 27
The Weather Station and Water Conservation	28
Drought Conditions	29
Water Conservation Measures	30
Best Practices	30
Water Conservation Methods	33
Illicit Storm Drain Discharge (Program Oversight)	36
Wood Mulch	37
Tire-Derived Rubber Mulch	39
Xeriscape at County Properties	39
Drought Tolerant Plants	40
Demonstration Garden	40
Ocean Friendly Garden	41
Tree Inventory Program	43
Tree Management Plan	43
Tree Attrition Plan	43
Tree Treatment	44
Integrated Pest Management	44
We Have Taken IPM a Step Further	45
Integrated Pest Management and Sluggo	47
Result of Caustic Chemical Use Outside of IPM	47
Anticoagulants and IPM	48

The Green Landscape Department Goes Even Greener	49
Zero Waste Stream.....	50
Master Gardener Workshop	50
SECTION 3 Housekeeping Improvements.....	53
LEED and Custodial	54
Custodial Best Practices.....	54
Microfiber Cleaning Cloths	54
Smarter Cleaning.....	55
Custodial Supplies Quality, Price or Sustainable Products?	56
Green Soap Dispensers	57
Custodial Slip Resistant Shoes	57
Greening Your Cleaning Can Protect Your Health	57
Compostable Bags	61
Staffing Expediency	61
SECTION 4 Waste Reduction.....	63
Why Recycle?	64
County Policy on Recycling	64
Green Badge System.....	65
Combo Drinking Fountain/Bottle Refill Stations	65
Safe Drinking Water	66
Trash, Recycling and Wet Garbage.....	66
Food Waste Collection, Probation JJC	67
Food Separation Program at RAIN.....	68
Composting at Fire Department – Simi Valley	69
Composting at Animal Services – Camarillo.....	69
Food Waste Composting.....	70
Separate Collection of Food Waste Leads to Composting	72
Transitional Living Center Helps Homeless	73
Solar Powered Trash Cans at the Government Center	75
CalRecycle Recycling Grant	76
Combo Units - Trash/Recycle.....	77
Recycling of Cardboard Rolls.....	78
Reduction of Paper Towels	78
Dyson Air Blade Hand Dryers	78
We Recycle Our Green Waste	80
Vending Machines	80
GSA Projects	81
Electronics Recycling.....	82
Custodial Crew Tablet Usage	82
Digital Daily Task Sheet	83

Recycling Toner Cartridges 83

Receiving Packages can be good for the Environment 84

Every Day Office Supplies Recycling 84

Reuse of Bottles..... 85

Earth Day Handouts 86

Earth Day Tour 86

Earth Day Tour Recognition 87

Recycling Fun Facts 87

Recycling Pledge 91

SECTION 5 | Climate Action Change..... 92

Climate Change..... 93

Climate Change Mitigation..... 94

Greenhouse Gas Reductions 94

Our Copier Vendor 96

Vending “Energy Star” Machines 96

Carpool Parking Program 96

Bike Lockers and Bike Racks 97

Electric Vehicles 99

Continued Environmental Leadership 100

Alternative Transportation Efforts 102

SECTION 6 | Credits..... 103

Vendors Are Our Partners 104

Our County of Ventura Partners 105

Points of Contact..... 106

Business Support Graphics..... 106

Custodial Staff 108

Landscape Staff 109

How You Can Help in the Future 110

Section 1



Security/ Special Services

PAPER REDUCTION



GSA is Going Green, Green, Green in Everything

The County of Ventura, General Services Agency has made it our goal to do all we can to protect the environment by continuously examining our current processes and procedures to **Reduce, Recycle** or **Reuse** where ever possible.

The Security & Special Services Department has taken several steps towards better serving our clients while focusing on the Green Initiatives adopted by the Board of Supervisors.

The first step that was taken was to *Reduce* or eliminate the use of paper in our office processes. This small effort has made a huge impact on the amount of paper that is faxed, copied, mailed and distributed. The processes that are now paperless are as follows:

- Room Reservations/Equipment Request
- Carpool Parking Permits
- Vehicle Parking Permits
- Temporary Parking Permits
- Bike Locker Request Forms
- ID Badge Request
- ID Badge Billing
- Room Reservation/
Equipment Billing
- Work Order Request
- Security Reports
- Contracted Security Time Reporting
- Access and Key Authorization Form
- Special Events
- Security Inspection/Patrol Reports
- Security Incident Reports



The second step completed in July 2008 was the conversion of the paper application to a Microsoft Excel form that can be completed, submitted, and stored online. This form is used for every conference room reservation or equipment request averaging 800 to 1,000 annually. The reduction of paper used in this process is saving more than 1,900 sheets of paper annually.

The third step completed in August 2008 was the removal of faxed forms submitted daily from the Security Control Center to the

Security Operations Managers Office. There is a reduction of over 3,800 forms annually in the Reserve Parking, Carpool Parking Permit, and the Security reports process alone.

In 2011, GSA Special Services began a concerted effort to transfer all of the forms to e-forms. To date the Vehicle Parking Permit, Carpool Permit and Bike Locker Permit forms have been added to DocuShare. This created a large savings in paper and ink usage.

More than **45,000** sheets of paper per year used in our department have been eliminated from the process so far.



The next step was to evolve technically by capitalizing on our technology with the use of more robust computer programs that auto populate client information reservations and on e-kiosks. Billing information is automati-

cally extracted from the ID Badge Requisition e-Form that provides security to our information while supporting our business needs, reducing errors and cutting man-hours. Once this was accomplished, forms became obsolete, creating a new greener than green office environment.

The cost savings associated with the reduction of paper and the elimination of faxes calculates in the thousands of dollars; 127,000 sheets of paper and hundreds of trees. Time and material savings are only part of the rewards associated with this small change in the way we do our daily business. We are doing our part to save the trees in our forests that are so precious to our environment.

It pays to reduce, recycle and reuse especially in today's economy. Do your part too and you'll see for yourself the benefits of it.



Room Reservation Program – Billing Process Improvement

GSA Special Services has been busy making process improvements to the Room Reservation Program. The reservation program began as a manual program requiring the customer to submit a paper form to request conference rooms for meetings located in the Hall of Justice and the Hall of Administration. Additional forms were required to reserve equipment or to arrange setup. The forms were then faxed to the service building guard to manually input and distribute to maintenance personnel. The following changes have been made to improve customer satisfaction and functionality of the program.

- ❖ Purchased event planning software that can be used via the internet by all authorized users, eliminating the paper form and expanding the program base.
- ❖ Purchased upgrades to the event planning program to provide meetings listed on an E-Kiosk automatically, eliminating staff to provide data entry. Directional maps are also available at the E-kiosk to assist customers with finding their way to the conference rooms.
- ❖ Streamlined the process through a Kaizen to leverage technology by eliminating redundancies of effort and implementing tablets that can be used out in the field. This process also eliminated daily setup worksheets printed and distributed to the setup crew.
- ❖ Updated technology of equipment in conference rooms by adding 'Skype for Business' to conduct virtual meetings, eliminating travel costs and travel time. Large wall-mounted monitors have been added to the conference rooms for better viewing.
- ❖ Provide training on equipment to customers as needed who wish to practice their presentations, improving customer satisfaction.
- ❖ Implemented a streamlined process for last minute requests for equipment to be handled directly with Maintenance Dispatch, eliminating redundancy of work and providing full time maintenance dispatch support.

With the new upgrades, savings include **\$42,530.72** in **3,544.23 hours** of labor, and **\$936.00** in materials (7,880 sheets of paper and 12 ink cartridges).

Special Use Permit Process

With multiple forms to complete as part of the application process for Special Use Permits, an acknowledgement/acceptance area to be initialed was included on the front page of the application instead, eliminating the need for the Requirements, Rules/Regulations, and Acknowledgement pages. We were able to reduce the application process from 9 pages to 4 pages, thereby saving 5 pages per copy. There were 3 sets of pages printed per process, so we thereby saved 15 pages with each application. We also developed a half-page permit to be emailed to the client, reducing processing/printing efforts, while increasing customer quality and service, and added credit card payment options, providing the convenience of making payments remotely.

- Hard savings: Reduced paper by 15 pieces, \$.30 each = \$4.50 savings in processing per event x 110 events = **\$495.00** projected annual savings (1,620 pieces of paper).
- Soft savings: Time reduction for processing and printing forms. Approximately 17 minutes per transaction saved between Administrator, Client, and Manager's approval. 17 x 110 events = 1,870 minutes/60 minutes = **31.17 hours** in estimated savings. 31.17 hours x \$49.39 hourly rate = **\$1,539.49**.
- Grand total saved: \$495.00 + \$1,539.49 = **\$2,034.49**

Further upgrades include the creation of e-forms for Special Use Permits, leveraging technology and thereby eliminating the need for any paper printing or processing, and cutting down on submission and processing time. This creates a savings of **90.9 hours x \$49.39/hour = \$4,489.55**, plus **\$1,204.88** saved by no longer using paper or toner cartridges.

Temporary Parking Permits

Prior to 2011, a vendor or visitor in need of a temporary parking permit for one week or less was to apply for a parking permit. Once it was approved a temporary parking permit was issued. One permit was issued for each day due to the expiring chemical decal used on the temporary permit. There was also no process in place to track the

temporary permits; who they were issued to or where they were authorized to park.

With the new process, one decal per event can be used across a finite time frame. The department submits a parking permit request on-line and it goes through the approval process. The permit is issued for the time frame needed.

Prior process took approximately 20 minutes for an average of 50 temporary permits per year equaling 16.6 hours. The new process takes 10 minutes for 50/year equaling 8.3 hours for a time savings of **8.3 hours** per year or **\$409.94**. Use of the Graphics department will ensure a future savings in paper usage and in-house resources as well as making this a green accomplishment.

Parking Permit Application Process (E-Form)

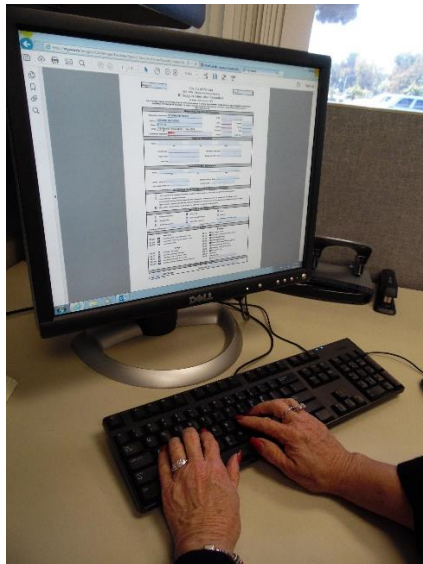
Prior Process - GSA processes approximately 1000 parking permits and hangtags annually. The parking permits and hang tags were obtained by submitting an application via brown mail, fax or email to GSA Security from the applicant. The application was reviewed for accuracy, processed and then approved by the GSA Special Services Manager. Once approved the parking permit went to the GSA ID Badge Desk for assignment of the appropriate parking permit, logging into the spreadsheet and distribution of the permit. This process took approximately 30 minutes each permit request for a total of 500 hours. $500 \text{ hours} \times \$49.39 = \text{\$24,695.00}$.

The new process requires the parking permit application form to be submitted to GSA Security via the on-line application. The application is approved on-line by the reviewer and sent via email to the authorized signer. Once approved it signals an email to be sent to the GSA Security Manager who approves it on-line. This process takes approximately 10 minutes; a savings of 20 minutes per permit. $1000 \times 10 \text{ min} = 10,000 \text{ minutes}$ divided by 60 = 166.6 x \$49.39 = \$8,228.37 soft savings in time and in paper and ink \$44.70 for a total current savings of \$8273.07. Prior cost \$24,695.00 - \$8,273.07 = **\$16,421.93** total savings.

Bike Locker Permit Process (E-Form)

Applicant would contact the Security Control Center (SCC) about information on obtaining a bike locker. Security would email them the application to fill out. The applicant would fill out the application and turn it into the SCC. The applicant's information was then typed into a spreadsheet that required updating and monitoring for accuracy. This process took approximately 60 minutes per bike locker request. 1 hour X 96 requests = 96 hours x \$49.39 = **\$4,741.44.**

Improvement - Applicant goes online and fills out the e-form for a bike locker to be assigned. The request comes in to Docushare and is immediately approved. A bike locker is assigned and an email is sent to the applicant informing them of the locker number and further instructions. Because the information is now in Docushare, the spreadsheet is no longer necessary as reports can be run from Docushare. By automating the system we have reduced the opportunity for human error, and saved time and paper. The process now takes 5 minutes x 96 = 480/60 = 8 hours x \$49.39 = \$395.12. The total savings is. **\$4,346.32.**



Changing from Fax Machines to Scanners

By converting to the use of scanners at \$50.00 each The Special Services Department has eliminated ten (10) Fax machines and Fax lines for a total savings of \$3,090.00 annually:

*10 Fax lines x \$25.75 per Fax line x 12 months = **\$3,090.00 per year***

As a result of this change we have eliminated the use of 80 toner cartridges. As we haven't had to buy them for the kiosks, this is a total savings of \$1,600.00 annually.

In addition to the above there has also been a savings in paper usage. From each of the kiosks to the Security Control Center (SCC) there were approximately eight (8) sheets of paper being sent per day. The total paper savings for the eight kiosks is 34,160 sheets per year.

From the SCC to the kiosks there were two (2) sheets of paper being sent per day. The total for the eight kiosks is 8,540 sheets per year.

Grand Total paper savings is 42,700 sheets of paper
Cost of savings is \$1,281.00

The total cost savings for changing out the Fax machines and adding scanners is **\$5,971.00** annually.

Maintenance Work Orders/Incident Reports

Process Improvements

Problem

1. Timely distribution of information. People who need the information are not getting it in time.
2. Follow up is not efficient or effective. It is believed we can improve the problem by improving the method by which the information is documented.

Process Evaluation

The results of the examination of the processes indicated the following problems:

1. The information for Maintenance service calls was being put into the Security Incident Reporting (IR) system by the nighttime security dispatch employee. The information was later being put into the Maintenance Work Order (W/O) system from the security IR system manually. Because of the format of the IR it is clear that relevant information was being buried in the description. The Maintenance W/O system is designed to facilitate management of W/Os. To eliminate this problem, the Security Control Center now enters W/Os directly into the MAINTSTAR system. In addition to the benefit of streamlining the system and making information readily available to Maintenance personnel, the SCC data base and storage has been reduced by eliminating the non-related maintenance information. This process also eliminates one page in the Security Managers daily summary report.
2. Follow up on the Equipment Down List (See attachment II). There have been consistent complaints from the Maintenance Department that the status of the Equipment Down List is not real time – dated. Because of the new process the Maintenance Department can now go into their system and query real time information for tracking because the reference IR# that was on the Equipment Down List has been replaced by the W/O number.

Overall Analysis

The removal of the IR# in the Maintenance reporting system has eliminated several manual steps, the production of reports and redundancy in data storage and management. They have been highlighted on the Future State process.

Additional Actions

To improve communications and support the process changes, Rosalind Harris met with Maintenance, Projects and Special Services Staff and redefined the duties and Roles and Responsibilities. (See attachment IV). The SOP for SCC was also developed.

Hard savings

Hard savings consist of paper, ink and data storage.

- Paper savings per year of \$884.52. This was arrived at by using the following: 9 pages x 9 people x .03/page = \$2.43/report/day x 7 days week = \$17.01 x 52 weeks/year = **\$884.52/year**.
- Ink savings of \$2,653.56. This was arrived at by using the following: 9 pages x 9 people x .09/page = \$7.29/report/day x 7 days week = \$51.03 x 52 weeks/year = **\$2,653.56**.
- Data storage savings of \$292.41. This was arrived at by using the following: 1083 IRs/year x 9 people receiving them x .03/page = **\$292.41**.

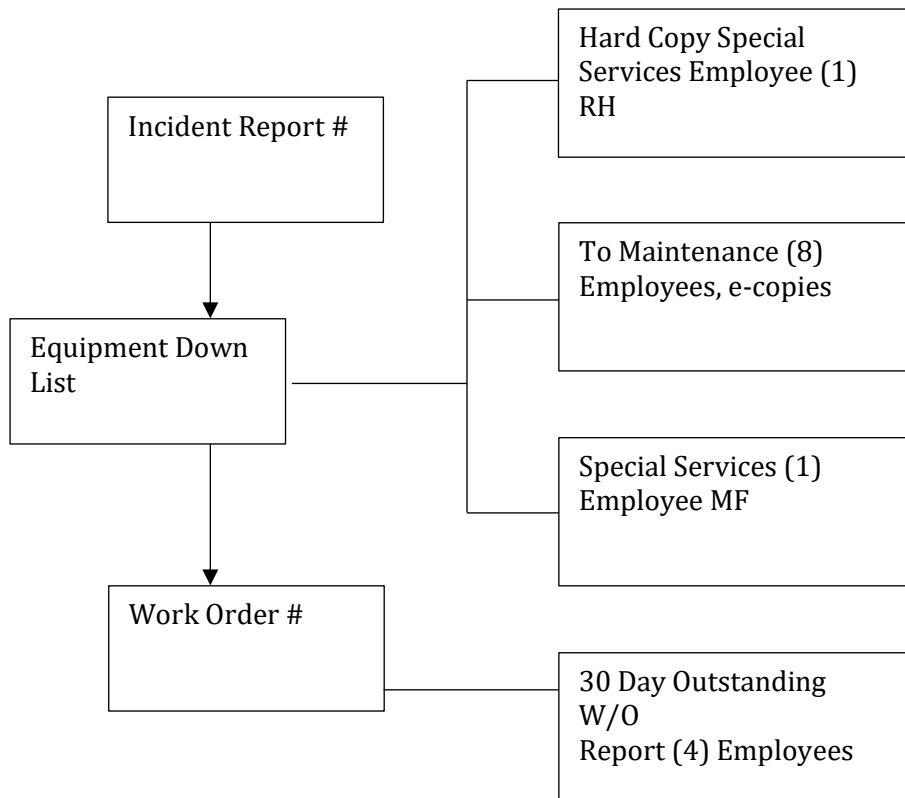
Soft Savings

Labor savings

- 30 minutes/day entering data into Report Pro and reviewing the data
- 15 minutes/day making copies and mail handling
- 10 minutes/day emailing reports
- This equals .68 minutes/day x 365 days/year x \$49.39/hour for an annual savings of **\$12,258.60**

CURRENT STATE – EQUIPMENT DOWN LIST

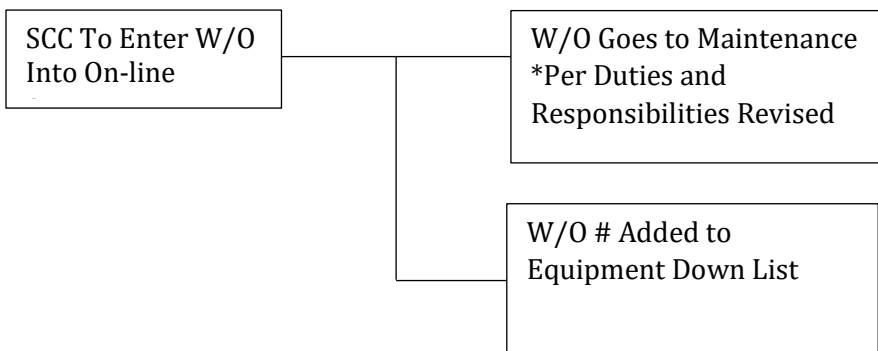
(For Oversight and Management Performance)



FUTURE STATE

Maintenance Dispatch from Security Control Center Recordkeeping

Eliminated 5 steps and eliminated the need for IRs which eliminated 5 steps as well as the redundancy of entering the information into CESI and MAINTSTAR by the separate department.



Room Reservation Process Improvements

Improving the Process to Stay Green

The process team documented and evaluated the existing process. A concerted effort was made to take advantage of technology by automating all manual processes. The following paragraphs discuss our findings and changes made.

The room reservation software program is currently managed and maintained by GSA Special Services. The previously used process required the client to print the room reservation/equipment rental form from the GSA Special Services Web site. Then, the client was required to correspond with the attendant to check the availability of the desired conference room. Once the availability was determined, the client had to manually fill out the form and fax it to Special Services where it was manually entered into the room reservation program. Special Services provided paper copies of all the meetings scheduled to various agencies and personnel on a weekly basis. Meeting confirmations were printed and distributed daily. Maintenance would then process a Work Order in MaintStar for workload tracking. The room setup and equipment is provided by General Services Agency Facilities and Materials.

The room reservation process in place today is much simpler to access and use. The program is available at every workstation via the intranet. The client has access to the current schedule to view the room's availability. Once availability is determined, the client schedules the room, equipment and setup as needed.

The room reservation administrator reviews the reservation the client scheduled for accuracy. Once complete, the reservation is confirmed. A courtesy confirmation email is then sent to the client.

The Audio Visual Techs review the reservations on-line daily and set the rooms up accordingly. The client is met in the room before the meeting to ensure setup and connectivity.

Monthly billing information is downloaded from the server and sent directly to accounting via email. We now have a completely paperless process.

Benefits

- ❑ Improves customer service. More convenient for customer to schedule meetings.
- ❑ Facilities are better suited for technically supporting our business needs.
- ❑ Time saved for the Service building Security Guard kiosk.
- ❑ Free program updates available for 1 year without interruptions to the customer or services provided.
- ❑ Reduces errors and eliminates redundancy in effort.
- ❑ Increase in revenue and annual cost savings
- ❑ Reduces paper usage by approximately 11,700 sheets annually supporting the 'Paperless Office' commitment.
- ❑ Lower costs to clients.
- ❑ Time Savings for AV Techs will have reduced setup requirements enabling them to work on other projects. Time reduced approximately **39%**.
- ❑ Scheduling Ease
- ❑ Customer Satisfaction Increased.

Increasing Productivity, Reducing Costs, and Going Even Greener

We were running into room reservation and set-up problems caused by human errors, last minute requests, and redundancies, as the information was not real time data. Changes were made by defining clear and definite processes, by leveraging technology to work off real time data, and by putting safeguards into place to restrict customers making last minute changes. Access was restricted to pre-authorized users, and a streamlined process was developed to handle last minute requests. Human error and poor communication were the greatest causes of the failures, but with automation replacing manual systems, the redefined process, and lines of communication streamlined, fewer

errors occur, customer expectations have a clearer understanding, and there is an increase in satisfaction. This also resulted in a reduction of program cost and labor of:

- Old process had an average of 5 hours per week spent on **last minute requests** received by any of 4 different positions. $5 \text{ hours/week} \times 52 \text{ weeks} = 260 \text{ hours/year}$.
- New process has an average of 1 hour per week received by only 4 position. $1 \text{ hour/week} \times 52 \text{ weeks} = 52 \text{ hours/year}$.
- Net hourly savings per year is 208 hours/year ($260 - 52 = 208$). Soft labor savings $208 \text{ hours/year} \times \$49.39/\text{hour} = \textbf{\$10,273 saved per year}$.
 - Old process had 11 hours per week spent **manually reviewing the scheduled events** and room reservations among 4 different positions. $11 \text{ hours/week} = 572 \text{ hours/year}$.
 - New process has one person prepare the work orders and send them daily via email to the technician. $1.25 \text{ hours/week} = 65 \text{ hours/year}$.
 - Net hourly savings per year is 507 hours/year ($572 - 65 = 507$). Soft labor savings $507 \text{ hours/year} \times \$49.39/\text{hour} = \textbf{\$25,041 saved per year}$.
- Old process had an average 50 pages of **paper printed** for daily/weekly reservation reports passed to 4 different positions. Paper: $50 \text{ pages} \times 4 \text{ copies} = 200 \text{ pieces of paper/week} \times 4 \text{ weeks} = 800 \text{ pieces/month} = 9,600 \text{ sheets/year}$. Material cost savings $9,600 \times .03 \text{ (cost per sheet)} = \textbf{\$288/year hard savings}$. Cost of cartridge per year: $12,000 \text{ pages/black cartridge}, 9,600 \text{ pages per year}/12,000 = 0.8 \text{ cartridges used per year}$. Cost per cartridge is \$238.
- New process is paperless, therefore the cost for materials is \$0.
- Material cost savings $\$238 \times 0.8 = \textbf{\$190.40/year hard savings}$.

Grand total hard savings: **\$1,098.40**

Grand total soft savings: **\$35,314**

Improving the Process for Room and Equipment Set-Up

With over 4,000 room reservations a year, many of which require customized set-up of the room and the equipment, there is bound to be some error, due to non-standard requests. This resulted in lost time to several departments, as set-up had to be re-done on the day of the event. A dropdown menu with mandatory fields was added to the Room Reservation Program, saving nearly 50 hours of work on the part of the person making the request, and the person fulfilling the request, for a savings of **329.59 hours** and **\$16,278.45**. Paper and toner were also saved by the elimination of hard copy drawings, as well as time spent by the requestor in creating the drawings, resulting in **63.66 hours** and 1,146 pieces of paper saved, totaling **\$3,746.36**.

E-Kiosk Meeting Notifications

There are 2 main e-kiosks at the Government Center plus 8 e-kiosks outside of the conference rooms that electronically display the meetings of the day. In the past, the roving Security Officer had to update each of these e-kiosks manually, based on a paper request submitted by the meeting organizer/requestor. This left room for error, such as incorrect start/end times, errors in spelling, overlooked or double-booked meetings, changes to existing requests, and last minute requests not captured, as well as being incredibly time-consuming for all those involved. With the purchase of a new room reservation scheduler program, all of these errors were eliminated. A manual process became an automatic process, Security Officer time was freed up which restored their complete attention to their kiosk, maps were provided alongside each reservation, and community services were improved. This resulted in a savings of **164.65 hours** per year, \$8,132.00. Also saved was the cost of the old program which did not communicate properly with our new system, \$7,573.00. Total savings = **\$14,726.00**.

Parking Placard Process Improvement

GSA processes approximately 300 parking placards annually. The parking permit placards were obtained by submitting an application to GSA Security. The application was processed and approved by the GSA SS Manager. Once approved the placard was developed and signed by

the manager. Once signed, it was laminated and delivered to the client or the client was contacted for pick up. This process took approximately 30 minutes each. Total cost to process was \$7,510.50. The new process requires the parking permit application form to be submitted to GSA Security. The application is approved by the GSA Security Manager. Once approved the permit number is logged and the new hanging tag parking permit is provided to the client. Time savings of 25 minutes each. This process improvement saves both time and material.

Electronic ID Badge Request Form Process Improvement

GSA produces over 1,700 ID badges annually. A printed document was submitted for issuance, requiring a completed and signed copy to be distributed to the ID Badge Desk for creation, a copy for the Badge record, and another copy for the billing process. By moving to an electronic form, the information is automatically stored, saving time for those who have to repeatedly submit the form for updates. Electronic completion of the form also ensures an accurate form, as the system fills in the budget information, agency information, and authorized signatures. It eliminates errors that occur due to illegible handwriting, too. It also saves time as with the electronic transmittal, the recipient does not need to obtain and present documentation. This improvement results in a savings of roughly 5,300 pages a year, saves toner, and man hours. Total print savings is **\$2,718.00**. Total work hours saved is **56** annually.

Security Training Completion Certificates

Security and Special Services conducts roughly six Security Training classes a year, each with the potential to seat 120 employees at a time. Several of the classes have had to schedule two or three sessions, due to the popularity of the topic and the surge of registrations. Some years, we have trained nearly 1,400 County employees. A certificate is issued to each County employee who attends the session, so in order to speed things along, we would print the certificates in advance, and hand them out at the training. We soon discovered that while many people registered for the Security training, not all of them appeared, thereby needlessly wasting so much time and paper for the printing of the certificates. To become more efficient and less wasteful, we now email electronic versions of the certificates after the class, and only to

those who attended. The annual savings for not printing certificates is **\$1,115.00** and **20 hours** of labor.

GSA SPECIAL SERVICES JOURNEY TO A PAPERLESS OFFICE



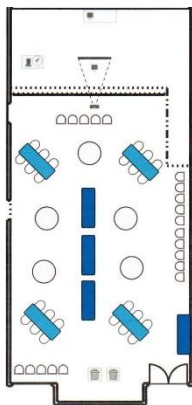
Once upon a time, back in the early 2000s.... GSA Special Service began their journey to a paperless office by converting from a paper form to reserve a conference room to a digital

conference room scheduling system. The conference room scheduling system was then enhanced to allow county employees online access enabling them to book their own conference rooms. Digital processes and procedures were developed and implemented eliminating weekly paper distributions to staff and accounting. Additional enhancements have been made with digital signage of daily room reservations outside conference rooms and in the HOA main plaza. The electronic display board has a touch screen to access directional maps to the conference rooms. The reservations are automatically posted to the display boards eliminating errors in data entry. Training was provided as needed. The transition from paper to digital was seamless and everyone adapted quickly to the new improved processes.

Then, we focused our attention on the ID Badge process. A Security Identification Badge is required for every county employee, contractor, and vendor. The ID Badge requisition form has been converted from a paper form to an e-form that is digitally distributed from the client (authorized agency personnel) to the ID Badge desk via a 'Submit' button on the e-form. The security guard processes the e-form and places it in a pending file. The ID Badge is developed when the employee, vendor, or contractor arrives at the ID Badge desk. The e-form is then placed in a completed file on a shared directory. A query was developed to extract the information from the e-form to the billing

database. This process improvement eliminated time spent on checking correcting and re-entering the data into the billing database. It also eliminates thousands of pieces of paper.

Finally, our attention focused on the Special Use Permit process. A Special Use Permit/Film Permit or Display Permit is required for internal and external customers to host events on county grounds or in conference rooms. The special use permit packets include a permit application, a questionnaire, a cleaning agreement and information on rules, regulations and policy/procedures. Insurance and a Hold Harmless Indemnification form are required for external customers. The packets consisted of at least 9 pieces of paper each. Several thousand pieces of paper were eliminated when special use permit e-form packets were developed. Digital processes and procedures were developed to distribute the packets digitally for approval. Once approved, the e-form permit is sent to the client via email. Paper forms are no longer accepted for processing. Clients were turned away and asked to provide the e-form packet. Everyone happily cooperated and provided the e-forms once the 'Paperless Office' goal was shared with them.



Additional enhancements have been made to further digitize the processes described above. GSA Special Services has introduced Social Tables to clients planning an event or special occasion in a conference room or on the grounds. The final image is uploaded to the reservation enabling setup crew access to the drawing (real time data) on their mobile unit out in the field. This process improvement eliminated paper sketches and hand drawn diagrams.

Social Tables is a very user friendly design program that empowers clients to design a professional looking layout of their event replacing pencil sketches that are sometimes hard to decipher. The click and drag technique is quick and easy to use. All items are set to scale eliminating over-crowding and ordering of items that don't fit.

Social Tables provides collaborators a link to the project providing real time data to all involved. The link is also saved to the EMS room reservation providing an added benefit to the AV Techs that access the reservation via their mobile units supporting a paperless platform.

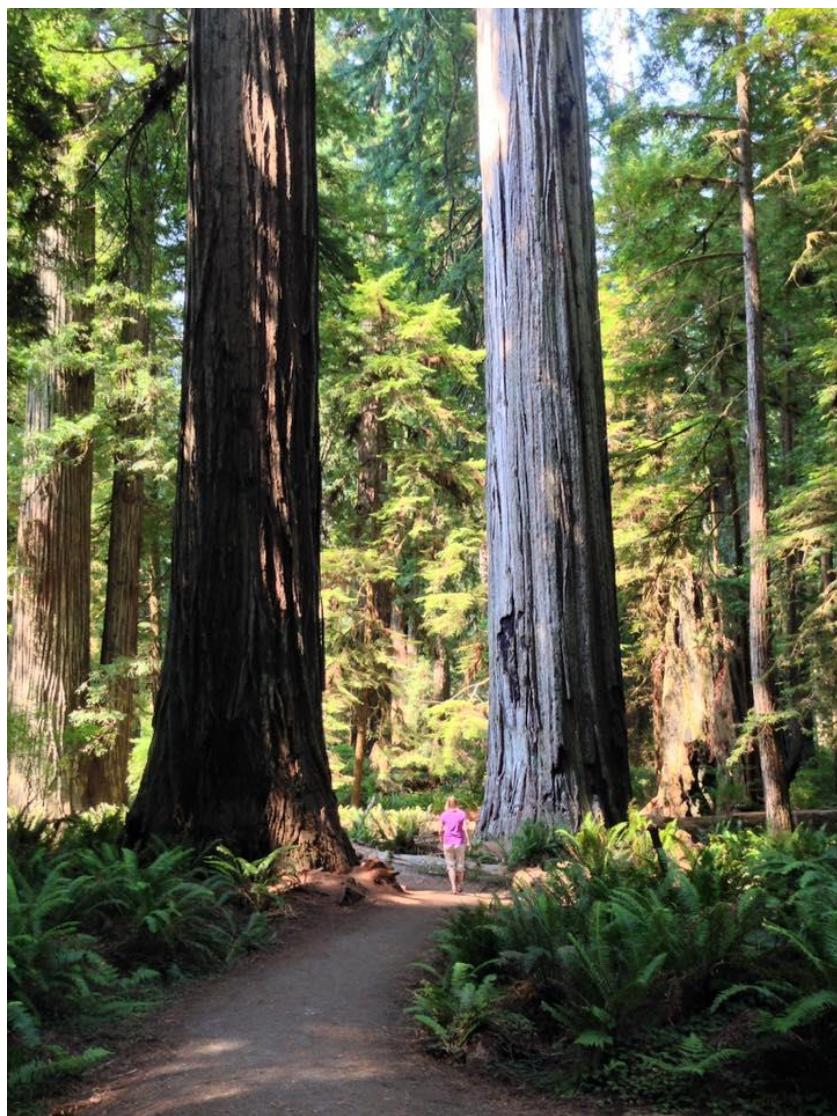
To start designing your next event using Social Tables, contact, Stephanie Peres, GSA Special Services Coordinator at (805) 477-7187 or email at Stephanie.Peres@ventura.org.

GSA Special Services has accomplished their goal of operating a **PAPERLESS OFFICE** through continuous process improvements. A total of 18 forms have been converted to e-forms and e-processes. All e-forms are available online for easy access.

List of e-Forms developed and implemented:

1. Special Use Permit application, Internal
2. Special Use Permit application, External
3. Check list - Special Use Permit Application, External
4. Check list - Special Use Permit Application, Internal
5. Special Use Permit
6. Special Use Questionnaire
7. Rules & Regulation Acknowledgement
8. Equipment List
9. Cleaning Inspection Agreement
10. Credit Card Authorization
11. Hold Harmless Indemnification
12. Insurance Requirement
13. GSA Authorized Signature
14. Notice of Change in Charges
15. EMS – Authorized User
16. Parking Permit
17. Security Escort
18. GSA Products Form (used internally to purchase GSA retail items)

Proof that we are devoted to SAVING the PLANET and the TREES.



Section 2



Grounds Improvements



The Weather Station and Water Conservation



In December 2008 the GSA Grounds Department installed a weather station at the GSA Service Building located on the Government Center Campus. The wireless system sends valuable information to our Central Irrigation Computer. The weather station provides

weather data that can be used for irrigation scheduling. The weather station takes weather information such as solar energy, temperature, humidity and wind velocity and converts this information into (ET) or Evapotranspiration. This is a measure of the amount of water that is used by turf, plants and trees on a daily basis. ET is expressed in inches of water per acre. Soil moisture is depleted by plants twenty four hours a day - ET tells us the amount of water that is depleted from the soil on a daily basis so we can replenish the soil water reservoir. The weather station also provides us with some weather forecasting based on changes in barometric pressure.

A recent evaluation of the irrigation water usage at the Government Center revealed a significant reduction in applied water for the year. Calculations indicated that the GSA Grounds Department achieved a water savings of 25% to 35% % less water from our well than was required according to the University of California Evapotranspiration (ET) data.

The benefits of the weather station are many; (1) water is conserved because the station shuts down automatically during rain events, (2) the weather station makes daily changes in the amount of applied water thus minimizing the potential for human error, (3) ET assures that the plants are getting the right amount of water at the right time – this makes for healthier plants that can resist pests and diseases thus minimizing the need for pesticide applications, (4) Healthier plants make for a better looking landscape.

The onsite Weather Station and Toro Sentinel II irrigation system have proven to be very effective tools. In fact so effective that the Toro Sentinel Wireless Irrigation System was recently installed at 2220 Gonzales Road, the Saticoy Yard and the Juvenile Justice Center by

Innovative Irrigation Systems. This was due to the substantial water savings that has been achieved at other sites such as the Government Center, 646 County Square Drive, 669 County Square Drive, and 4651 Telephone Road using this system. The GSA Grounds Department remotely manages the irrigation from the Government Center.

Drought Conditions

In response to the ongoing severe drought in California, we have curtailed the watering of the lawn areas at the Government Center, greatly reducing the frequency. At these minimum levels, we allow the grass to become dormant but not to die. Trees and shrubs continue to receive proper watering so they remain healthy.



This reduction of watering at the Government Center has netted a savings of many millions of gallons of water over the same period the previous year. This further encouraged us to reduce watering at our six outlying sites, thereby conserving even more water.

Approximately 5,000 square feet of turf in parking lot 'E' finger was removed. Weed barrier and a two inch layer of Cedar Red Mulch was installed. This work is part of the overall strategic plan to significantly reduce water consumption at the Government Center, in response to the current drought.

In 2019, GSA Grounds worked at rewilding the hillside along the Victoria embankment, bringing the area back to its original condition as best as possible. By reseeding the California wildflower and plant seeds and allowing minimal weed tolerance, we do our best to replicate the original condition.



Water Conservation Measures

The GSA Grounds Department has implemented numerous water conservation measures over the last several years. We are responsible for the irrigation system management at the Government Center and 24 additional County properties that the Department manages.



The Government Center always irrigated using an on-site well. Therefore, all of the water used was ground water. The cost of the water was much less expensive than municipal water. The only associated costs of using a well are for electricity to pump the water and for well maintenance. The water quality is rated as being “poor” for the purpose of growing landscape plants, primarily due to its high salt content. However, with the proper management and the use of salt tolerant plants, they are able to do a fairly good job of maintaining good plant health and vigor.

With the drought, our on-site well was recently put out of service. It was no longer able to draw water at the depth, and it was experiencing mechanical issues. At this time, we are using municipal supply water, but are evaluating a new on-site well for property quality. We expect the new well to go into use during the first quarter of 2020.

The other 24 County properties that are being managed get their water from municipal water purveyors. The irrigation systems are maintained and managed by landscape contractors. The Supervisor checks the properties regularly and corresponds with the owner and supervisors several times a week to assure that the irrigation is in good order and that the contractor is not over watering.

Best Practices

One of the water consumption reduction measures was water scheduling modifications. As far back as 2003, the Government Center was receiving up to 6 complete irrigations per week. Fiscal year 2005 the irrigation system automations were upgraded and re-zoned to facilitate more versatile methods and techniques of watering and to make maintenance easier. The careful water management has resulted in highly significant reductions in water usage and electrical pumping charges. The new system has hand held remote control devices which

makes on-site inspection and repair easier. Fiscal Year 2006, the watering methods were divided up into three categories/areas.

Area 1: Which covers 20% of the campus; contains shady area established shrubs and ivy. The irrigation system was turned off in these areas.

Area 2: Which covers 40% of the campus; receives 10 minutes of irrigation.

Area 3: Which covers 40% of the campus; is more drought resistant and receives only 5 minutes of irrigation.

The frequency of irrigation has been reduced:

Spring and Fall from 3 to 2 times per week; reduced to 1 time per week during the drought.

Summer from 6 to 3 times per week; reduced to 1 time per week during the drought.

Winter from 3 to 1 time(s) per week; curtailed altogether in the event of sufficient rainfall.

Fiscal year 2007 electronic flow meters were installed and tied in to the new irrigation system. These new meters report information into our data base from our three largest locations: Government Center, County Square Drive and Telephone Road.

This information has facilitated the below summary of savings.

Government Center

50% water consumption reduction

Water savings per year = 47,125,000 gallons = 63,001 HCF

Energy savings from well pump per year = \$688

Note: There is no water cost savings due to the fact that we use well water.

646 County Square Drive

50% water consumption reduction

Water savings per year = 115,960 gallons = 155 HCF

Cost savings per year = 155 HCF (\$2.40/HCF) = \$372

669 County Square Drive

50% water consumption reduction

Water savings per year = 256,568 gallons = 343 HCF
Cost savings per year = 343 HCF (\$2.40/HCF) = \$823

4561 Telephone Road

50% water consumption reduction
Water savings per year = 513,552 gallons = 687 HCF
Cost savings per year = 687 HCF (\$2.40/HCF) = \$1,649

Total

Water savings per year = **48,011,080 gallons = 6,419 HCF**
Cost savings per year = **\$2,844**
Energy Savings = **\$688**
Total Cost Savings: \$3,532

Below is a summary of water savings measures that are currently being used.

- The irrigation system at the Government Center, 646 County Square Drive, 669 County Square Drive and 4651 Telephone Road are controlled using a Toro Sentinel irrigation system that is state of the art. The system has been adjusted to maximize efficiency. Flow meters have been installed to monitor water usage in order to conserve water usage.
- Water saving irrigation heads and nozzles added.
- Watering is done primarily at night to reduce evaporative losses.
- Changes are made regularly and quickly as the weather changes.
- Adjustments have been made to reduce the amount of applied water to many areas that are low or are shady most of the time.
- Some areas that have established drought resistant plants have been turned off for extended periods of time.
- Mulch has been applied wherever possible – again to reduce evaporative losses.
- Weather forecasting is used to turn off water before periods of rain.
- CIMIS Evapotranspiration (which is a State maintained weather station that gathers data) information is used for scheduling and to determine the best time to turn water back on after a rain event.
- Contractors are notified when to turn water off, make adjustments and when to make repairs.

- Irrigation systems are checked regularly and repairs made to assure that leaks are fixed and water is not being wasted.
- Drought tolerant plants from the Integrated Pest Management Committee Recommended Plant List are used for new plantings whenever possible.
- Conducts irrigation audit using California Department of Water Resource standards.

The use of the above mentioned measures equate to significant water savings. Please see our Key Performance Indicators accessible from the GSA home page for specific quantities.

Note: Evapotranspiration (ET) is a measure of plants water requirements on a daily basis. ET is measured using weather station data. Factors influencing ET are; solar energy, temperature, humidity and wind speed.



Water Conservation Methods

Pervious Pavement and Gutters:



Currently pervious pavement and gutters have been installed at parking lots A and B at the Government Center. Pervious pavement and gutters allow for more water penetration into the water table rather than the water being wasted as runoff. Future pervious pavement and gutter projects have been approved for the entire Government Center complex. GSA is partnering with the Public Works Agency to provide maintenance to the pervious pavement installed in the

Government Center parking lots. Pervious concrete comes with a guarantee of functionality for not less than 20 years from the date of completion of construction.

Animal Services Irrigation Upgrade:

Our vendor installed a pressure regulator on the irrigation backflow prevention manifold to reduce excessive pressure to an appropriate working pressure of 75-85 PSI. This upgrade reduced strain on the irrigation valves, sprinklers, and seals, increasing their longevity.

293 sprinkler heads were replaced with water-efficient heads which save up to 30% water by applying water at a lower rate in order to allow soil infiltration and less misting. Less misting reduces wind drift and overspray.

Our vendor applied to the SoCal Watersmart Program, and passed along a rebate to the County of \$4 per sprinkler nozzle, totaling **\$1,172**.

Telephone Road Building Combined Methods:



GSA installed jute mesh to stabilize the slope at the Telephone Road building, along with new mulch which suppresses weed growth and reduces the need for herbicides and pesticides. New mulch retains soil moisture, resulting in a 30% savings in water efficiency for the sprinkler nozzles which were exchanged. The sprinkler nozzles apply water at a slower rate and with less misting to reduce water loss from runoff, drift, and evaporation.

East Valley Sheriff Station Upgrade:

The EVSS Property was upgraded with a Sentinel Controller to tie into the Irrigation Central Control System managed by Grounds for multiple sites. This included the installation of a Hydrometer to control and measure water flow, and the valve replacement and water efficient nozzle upgrades. These upgrades will have a tremendous impact on water savings for this large property by maximizing water efficiency through regular monitoring, appropriate water applications, and fail-safe back-up systems to prevent water waste when damages or malfunctions occur.

Drip System Installation:

Installed drip systems specifically for trees to supply appropriate irrigation during periods of drought to preserve this valuable resource, independent of turf watering that can be cut back or eliminated at the southwest portion of the Government Center. Adding mulch to protect the system also helped to retain moisture and suppress weed growth, thus reducing the need for herbicides.

Agricultural Commissioner's Office:

Modified Irrigation coverage patterns to eliminate overspray and apply water in a more efficient manner at the Agricultural Commissioner's Office.

Quad Landscape Design:

Installed Quad Landscape designed with drought tolerant plantings and a bio-swale to capture storm water run-off and allow to percolate into the groundwater system.

Recycled Rubber Mulch Grant:

As part of a grant conveyed to the County, 3,200 square feet of turf areas were exchanged with recycled Rubber Mulch with drip systems installed for trees in selected finger planters at the Government Center. This project furthers the goal of water conservation in periods of drought and significantly reduces the need for herbicide applications to control weeds. The County received a grant from CalRecycle in the amount of **\$95,019** for this project, and a Water Wise Incentive Program rebate from the City of Ventura Sod Replacement Program in the amount of \$6,400. An additional 2,300 square feet of rubber mulch was installed to complete the area around the Water Wise project adjacent to the Pre-Trial Detention Facility. A quantity of rubber mulch has been retained in reserve to replenish existing areas as needed, or to install in new areas.





Xylosma Removal:

Removed aged, fast growing Xylosma hedge to permanently reduce maintenance costs for hedge trimming several times a year, pesticide applications, and watering in a less visible area of the Government Center.

Illicit Storm Drain Discharge (Program Oversight)

GSA, Special Services, Housekeeping and Grounds are providing compliance, education, training and awareness to our vendors and clients on an annual basis. It has also been integrated into our contracts and our quality assurance programs. The Contract Administrators for Landscape, Custodial and Special Services programs will oversee and inspect their contracts to insure compliance. Contract sanctions are available as a remedy. Any penalties, as discussed in the following summary from Anacapa Consulting Services, Inc. of February 4, 2011, will be passed on to the vendors of the County. (See Ordinance 4142).

All vendors that are impacted by the storm drain requirements have been notified by changes to their purchase orders. In addition, training sheets have been provided to the vendor with a signature line stating that the vendor has received the training sheets as well as a brief training session. A meeting was held with our vendors to explain the new changes and requirements. In addition to the above, we have provided information on the Outdoor Events requirements and the changes made to the IPM as a result of the Storm Water requirements.

By taking a storm water management approach including staff monitoring, vendor compliance and best management practices; GSA's Landscaping and Grounds program has adopted a preventative approach to illicit discharges that would be out of compliance with the National Pollutant Discharge Elimination System (NPDES).



In general, the risks of significant environmental damage from GSA activities are relatively low in comparison to larger entities like food production facilities, landfills, etc. If a discharge occurred, it would more likely be relatively small. A possible exception would be the illicit use of highly toxic chemicals by any of GSA's vendors. The IPM precludes these vendors from using toxic chemicals and any discharge would be considered a serious breach of contract.

- In the event that a violation occurred, either through its own actions or those of its vendors, GSA would be responsible for bringing this to the attention of PWA's enforcement personnel.
- With the exception of significant discharges as described above, and given the County's civic responsibility to meet its own standards, the most significant risks to GSA Landscaping and Grounds would likely be a notice of violation.



Wood Mulch

During the winter months, lawn growth slows down considerably. This gives us time to do projects that we wouldn't have time for otherwise. With the drought, we have had to step up efforts to ensure the life of our greenery. The GSA Grounds department has been applying mulch to bare soil areas, weedy areas and augmenting areas where the mulch is getting thin. Mulch breaks down over time and needs to be replenished. Good quality wood chip mulch applied at a depth of 4

inches will typically last 3-4 years before replenishment is necessary. Finer green waste mulch materials may need to be replenished every 2 years.



The Grounds Department has an extensive mulching program at the Government Center and has started applying mulch to other properties that we manage. Mulch has been applied to 855 Partridge, 669 County Square Drive, 2220 Gonzales Road and 4651 Telephone Road.

The benefits of applying mulch are many. Below is a list of many of the benefits achieved by applying mulch:



- Minimize soil erosion and impacts on storm water.
- Improve soil chemical and structural characteristics.
- Enhance the growth of beneficial microorganisms and earthworms.
- Conserve water.
- Reduce the need to apply herbicides for weed control.
- Reduce maintenance labor (mostly for weed control).
- Fertilize plants as it breaks down into essential plant nutrients.



The application of mulch also provides a pleasing natural look to the landscape. The next time you pass one of the locations where we have

laid rubber mulch, stop and take a look. You will see how well it blends in with the surrounding vegetation, complementing the living landscape as well as trying to preserve the future environment.

Tire-Derived Rubber Mulch

The California Department of Resources Recycling and Recovery (CalRecycle) provided the 2014/15 Tire-Derived Product (TDP) Grant for reuse of tire materials. This promoted the recycling and use of waste tires that would normally be directed to landfills. Our staff determined this tire-derived rubber mulch could be utilized to replace the grass along all five parking medians at the Government Center, amounting to approximately 52,000 square feet of grass removed and replaced with this mulch, thereby diverting 27,000 tires from California landfills.

XERISCAPE AT COUNTY PROPERTIES

PROPERTY	Xeriscape Improvements
Ag. Commissioners Office	500 s.f. Mulch
Animal Control	13,000 s.f. Mulch
Colston Youth Center	1,000 s.f. Mulch
East County Sheriff	4,300 s.f. Mulch
Gonzales Road	10,858 s.f. Mulch
Government Center	32,420 s.f. Rubber Mulch
	6,000 s.f. Crushed Brick Mulch
	750 s.f. Synthetic Turf
ISD	300 s.f. Mulch
Juvenile Probation/Courthouse	6,500 s.f. Mulch
	108,900 s.f. Mulch
	34,964 s.f. Mulch
Moorpark PD	4,000 s.f. Mulch
Multi Service	9,000 s.f. Mulch
Partridge Building	4,000 s.f. Mulch
Rain Property	5,000 s.f. Mulch
Saticoy Yard	4,000 s.f. Mulch
Solid Waste Management	500 s.f. Mulch
Telephone Road Building	13,000 s.f. Mulch
Vanguard Building	1,300 s.f. Mulch
Williams Drive	4,000 s.f. Mulch
TOTAL	264,292 s.f. Mulch

4.9 acres

Drought Tolerant Plants

In 2011, the GSA Grounds Department installed drought semi-tolerant plants, low maintenance plants, weed block and recycled rubber mulch in the small planter located at the entrance to the Public Works conference room at the Saticoy Yard. The new planting is an example of IPM (Integrated Pest Management) in that it reduces the need for pest control. Other benefits include conservation of water, the use of recycled materials and reduced labor costs.

Demonstration Garden

In 2011, the GSA Grounds Department installed a Demonstration Garden at the south entrance to the Pretrial Detention Facility. The garden contains recycled rubber mulch, weed free plastic and synthetic sod. Future plans include the addition of another 1700 square feet of synthetic sod. The primary purpose of this installation is to show the community alternative products that can save water, and significantly reduce the amount of labor needed to maintain their landscape. We chose this site because it is located over an underground structure. The soil drainage conditions are less than desirable and it is hard to get plants to grow. We also wanted to reduce the amount of applied water and minimize the potential for leaks below. Recycled synthetic mulch reduces chemical weed control.



There is a native plant demonstration garden located on the right side at the entrance to the circular drive near the Victoria entrance. This garden was planted in the fall of 2009 with native plants. The plants were purchased from Performance Nursery by way of Matilija Native Plant nursery in Somis. A drip irrigation system was installed initially to get the plants established.



The system was turned off after 5 months. We have not watered the area for over a year and the plants are doing pretty well. Grounds installed weed block material and mulch to minimize weed growth and to conserve water. The plants that have established themselves are; Manzanita, Sage, Galvesia, Blue-eyed grass, Juncus and Penstemon.

Ocean Friendly Garden





Thanks to the Prop. 84 Stormwater Implementation grant, the County conducted Ocean Friendly Garden workshops at the Government Center for the general public to learn, design, and implement a project.

A 2,300 square foot site located outside of the Hall of Justice was selected, in cooperation with Public Works Watershed Protection District and General Services Agency-Grounds Maintenance Department. The turf at this location was replaced with a rain garden.

After project completion, maintenance training was conducted for County employees and contractors as part of the Stormwater Training Program.

Water usage at the Government Center has steadily decreased, providing generous savings to the County. For the month of December 2018, usage was barely half of what it was for November 2018: 2.84 Acre Feet in December versus 5.40 Acre Feet in November.

Tree Inventory Program

A GPS Tree Inventory Software Program by ISA Certified Arborists was implemented for the Government Center, and off-site properties including 855 Partridge, 4651 Telephone Road, and 646 and 669 County Square Drive. This interactive, modifiable program and database provides GPS location, tree species (common and botanical name), size, characteristics, photograph, condition and assessment, recommended maintenance, and priority ratings. GSA grounds is currently looking for a new vendor to manage our tree inventory, but continue to remain confident in our contractor, who truly feels that every tree needs attention.

Tree Management Plan

The GSA Grounds department keeps an inventory of trees. The trees are tagged and mapped whenever possible. The data base identifies trees as per their species, size and trunk diameter. Currently the GSA grounds department is responsible for approximately 2695 trees. Approximately 1098 of those trees are located at the Government Center. The remaining trees are located at other GSA/Grounds managed County properties.

Tree Attrition Plan

The tree attrition plan is a comprehensive plan by which the trees are regularly inspected to determine the “Health and Safety” of each tree. The Tree Attrition Plan includes the following;

- Each tree is regularly inspected by an independent Certified Arborist.
- The Certified Arborist determines the relative health and safety of each tree.
- Trees are tagged and pictures taken whenever possible.
- Maps are regularly updated showing each individual tree.
- New trees are planted on an ongoing basis to replace trees that need to be replaced for health or safety reasons.
- Replacement trees are chosen that have desirable characteristics such as; drought tolerance, resistance to insects and diseases, or trees that are better suited to the environmental conditions in which they are to be planted.

- Recommendations that are provided by the Certified Arborist are prioritized (1-4). Priority 1 means that the tree needs to be dealt with immediately. This is usually a public health hazard. Priority 2 – as soon as possible. Priority 3 – in the near future. Priority 4 – when time allows.
- The GSA Grounds Department is very diligent in following the recommendations in a timely manner to assure the trees are healthy and safe.
- Environmentally friendly materials and cultural methods are used to maintain trees.

Tree Treatment

To augment minimal irrigation schedules, Grounds is routinely deep-root feeding trees using a soil needle to inject water, fertilizer and micronutrients directly in to the root zone to improve tree health, increasing resistance to diseases and insects during drought stress. Our trees have also been injected with Mycorrhiza. It is a soil fungus that forms a symbiotic relationship with the roots of most plants. The fungus increases the plant's absorptive capacity for water and mineral nutrients, thus limiting water waste.

Integrated Pest Management

What is IPM?

Integrated Pest Management (IPM) is the decision making process for managing pests that reduces the amount of health and environmental risks. It encompasses the use of mechanical, biological and green chemical treatment methods to reduce the amount of harmful substances introduced into the system.

GSA's Efforts

GSA has demonstrated leadership in the successful implementation and use of an Integrated Pest Management Program. With the goal of utilizing the most environmentally sensitive approach possible to both plants and pest management, we have reduced the application of pesticides by 80%. Better planning, better pest management and choosing specific over systematic treatments have allowed us to create such a drastic improvement.

While reduction of pesticides has been successfully implemented, the elimination of these products would be a step too far. The IPM allows

us to balance the use of pesticides to the health and safety of County employees and the public who visit our many locations. The ability to respond to an urgent situation that requires an immediate and potent treatment will still occur. The response to an urgent situation involving public safety may at times require treatment.

Through better practices, we should be able to identify the proper level of response and maintain our plan of using the lowest effective response. The Integrated Pest Management Committee was formed to share IPM methods and strategies that can be applied by other Agencies.

Throughout our IPM efforts, we have NOT used any EPA categorized tier I or tier II chemicals. The Use of Horticultural Oils on the Rosewood (Tipu) and Coral Trees.

We Have Taken IPM a Step Further

The Rosewood tree, Tipu or “Pride of Bolivia”, Tipuana tipu, is a tree that is native to South America. It is widely grown as a landscape ornamental and shade tree in Southern California and elsewhere in the world. These trees are popular because they are drought tolerant, frost tolerant and have attractive leaves and flowers. In October 2008, the Tipu psyllid (*Platycorypha nigrivirga*), a new pest in California, was found feeding on Tipu trees in San Diego County. Over the last few years the psyllids have spread from San Diego to Los Angeles and Orange Counties. Only very recently have they been found in Ventura County.

Tipu psyllid nymphs and adults are tiny piercing sucking insects that feed off the vascular tissue of the tree. They attack young leaves and branches of Tipu trees. Nymphs produce a pelletized wax like residue. Adults and nymphs produce copious amount of honeydew which fosters the growth of the black sooty-mold on leaves and branches. The excessive amount of sticky honeydew can foul sidewalks and vehicles parked under the trees.

New pests such as these can multiply very quickly for a variety of reasons. When a pest arrives in a new area, there are often not enough beneficial insects to help in their control. Predatory insects that feed on the new pest may not have made the journey. Entomologists often return to the native origin of an insect pest to look for predatory insects that can be reared and used for control. Populations can increase very rapidly. Sometimes it takes a while before beneficial and predatory

insects adapt and adjust to the new pest. It often takes a number of different species of predatory insects to develop in order to better control this new invader.

The Tipu psyllid was discovered at the 2220 and 2240 Gonzales Road buildings in Oxnard on July 30, 2010. All of the Tipu trees (Approximately 80 Trees) had multiple life stages of the insect feeding on them. It was determined that the insects were causing undesirable residues on cars, parking lots and walkways. The infestation and multiplication of the insects happened rather quickly. For these reasons it was determined that quick control measures would be necessary. All the trees were sprayed by a licensed Horticultural Pest control Operator. A Sunday was chosen to minimize any potential exposure to the public.

Least toxic alternatives and IPM (Integrated Pest Management) strategies were considered when determining the best control. Due to the high numbers of psyllids, honeydew on cars, and the lack of natural pest enemies, it was determined that quick and effective control was necessary. A combination of horticultural oil and a pyrethroid containing insecticide were chosen. The pyrethroid containing pesticide was chosen because it has a relatively low level toxicity rating and short residual, but when used with oil it provides quick and effective control.

The trees will continually be monitored for potential infestations. The psyllids are usually most prolific during the early leaf stage (spring and early summer) when there are a lot of tender leaves on the trees. Now that we are more aware of the new pest, we can monitor and control the pest more effectively. Early detection allows for more environmentally friendly pest control options and solutions.

In addition, the Coral Trees located at the HOA entrance were infested with mites. The mites stressed the trees by stealing water and nutrients. This caused undue stress which resulted in leaf drop and discoloration of the tree. GSA sprayed the trees with horticultural oil and the damage was kept to a minimum. The Grounds Department is pleased to report that it was effective in the treatment of the mites on the coral trees. Because of the success of this practice, we have extended its use to our outlying properties being maintained by our vendor of record.

This product is in line with the County's Integrated Pest Management strategies and is the least toxic alternative for adequate control.

Note: Horticultural oils are a non-toxic light mineral, vegetable, or refined based oils. The oil is usually combined with some type of emulsifying agent so that it can be mixed with water and used as a spray. Its use is an effective and ecologically friendly way to handle many garden insect pests and even some diseases. Generally applied as a spray, this type of pest control works by suffocating insects and their eggs. Horticultural oils may also deter pests from laying eggs and protect plants from viral or fungal diseases.

Integrated Pest Management and Sluggo

IPM techniques utilized by the GSA Grounds Division minimize use of harmful chemicals to control pests at the Government Center and other sites we manage. Toward that end, we use a product called "Sluggo" to control snails and slugs. Sluggo consists of iron phosphate, a compound that occurs wildly and naturally in the soil and is not harmful to people or animals.

Traditionally snails and slugs have been controlled using products that contain toxic chemicals like metaldehyde. While effective in killing snails and slugs, metaldehyde poses danger to unintended targets. The toxicity level in metaldehyde is sufficient to cause serious, sometimes fatal, injury to animals and even children if ingested. Sluggo is the safer, least toxic alternative product and is an effective tool in implementing our IPM strategies.

Result of Caustic Chemical Use Outside of IPM



When too much fertilizer is applied to a crop, garden or lawn, excess nutrients like nitrogen and phosphorus end up in the sewer and eventually in our lakes and streams.



Algae feed on the excess nitrogen and phosphorus and bloom in rivers, streams and ponds. The algae consume oxygen in the water, thereby choking fish to death.

Excess nitrogen in drinking water contributes to the "blue baby" syndrome in babies under 1 year old. One of the diseases causing blue baby syndrome is Methemoglobinemia. Blood in such infants is unable to carry oxygen, and the condition can lead to death.

GSA Grounds does not use EPA Category I and II chemicals, and has reduced less toxic pesticides by 86% since 2007. GSA Grounds also ceased using the herbicide glyphosate in 2016, joining in the trend in practice throughout the state of California of finding alternative, non-invasive methods.

Anticoagulants and IPM



Using anticoagulant bait interrupts the life cycle as smaller animals contaminate the larger animal.

In March of 2005, the Board of Supervisors recommended that the County of Ventura eliminate the use of anticoagulants due to the possibility of unintended poisoning of larger animals such as coyotes and mountain lions. This was in support of AB 1548 (PAVLEY) which recommends the avoidance of the use of anticoagulants to the extent possible. Specifically, the Grounds division is complying with the request by taking a comprehensive program overview to seek opportunities to reduce anticoagulants where applicable and use alternative methods.

Existing protocols for approval of any chemical application is documented. Decisions are first based on the need for control; secondly on the failure of non-pesticide control methods, and last on an evaluation of the various chemical options available; their toxicity,

their potential for unwanted exposure and adverse impacts, and their demonstrated efficacy for the proposed application. Anticoagulants will be placed at the bottom of the list.

In an effort to prevent and eliminate rodent populations, it is important that conditions favorable to their survival be reduced or eliminated as much as possible, thereby reducing the chemicals needed to treat these pests. Prevention begins with sanitation. Additionally, exclusion measures shall be taken that will make structures less hospitable or accessible.

AB 1548 (Pavley) has been successful in far-reaching ways. California has invested over \$12 million to integrate environmental education in the state science and social studies curriculum. With nearly 6.3 million students and more than 295,000 teachers, this shift in the education system is a formidable task, positioning California at the forefront of integrated environmental education. With California being one of two states that drive textbook content for much of the country, this requirement in California textbooks should influence the revisions for textbooks in the rest of the United States.

Another bill which was introduced but failed was AB 2422, the Proposed Anticoagulant Rodenticide Ban. The bill passed through the Environmental Safety and Toxic Materials Committee, but was defeated by the Pest Control Operators of California (PCOC) and their 150+ Legislative Day attendees who stormed the Capitol in Sacramento, claiming there was a need for federally and state approved rodenticides, and that they played a vital role in protecting public health. AB 2422 would have banned first and second generation anticoagulants, both of which are responsible for wildlife deaths, and 'sublethal' impacts that affect the ability of wildlife to survive and thrive.

The GREEN Landscape Department Goes Even Greener

GSA Grounds has always looked for ways to provide pest control while at the same time refraining from polluting our environment. The use of fumitoxin and anticoagulants has been banned by the County for use for many years now, so our staff has had to become creative in order to keep us rodent-free.

Thanks to the ingenuity of our team, more than 100 gophers have been eradicated in just six months at the Juvenile Detention Center. This has been done by using pesticide-free mechanical traps, placed directly in the gopher holes, thereby allowing the gophers no advance warning that they are stepping into no man's land, from which they will not return.

We now end up with dead gophers but without using the noxious pesticides which could in turn have poisoned other creatures who came upon their corpses – such as our local bobcats and mountain lions. Just one more way GSA Grounds is helping to preserve wildlife and keep from adding more animals onto the endangered species list.

Zero Waste Stream

Did you know that the GSA Grounds Division maintains the landscape at the Government Center and other County facilities as a nearly zero waste stream operation? All grass, tree and plant clippings are either reused on site as mulch or are hauled to Agromin and recycled to wood chips and green waste. Collection of clippings is done with reusable and recyclable burlap sacks made of Jute vegetable fiber and are



reusable for approximately six months, after which they are recycled to green waste. The plastic eco-friendly pesticide containers are triple punched, triple rinsed and recycled. Implementation of these zero waste stream efforts reduces our use of plastic bags by **95%**.

Master Gardener Workshop Can Help You Prevent an Asset from Becoming Waste

For Eye on the Environment

By David Goldstein, VCPWA, IWMD

Which one of your possessions would cost you thousands of dollars to discard? A large tree on your property can be a valuable asset or a terrible liability.

Selected, planted and maintained correctly, a tree can add value to your home and beauty to your neighborhood. The wrong tree in the wrong place, however, can grow into the eaves of your home. Its roots can disrupt your plumbing or crack your pavement, and its fallen leaves can become a burden. Even the shade of a tree, so valuable for reducing heating bills in the summer, can become a problem if it prevents your vegetable garden or solar panels from receiving sunlight. In some cases, trees can become fire hazards. For example, the blue gum eucalyptus is not only a flammable tree, it responds to fire by shooting out exploding seed pods capable of spreading the blaze.

The potential problems presented by trees, and the high cost to remove them, can be avoided through better knowledge — an area of environmental education called “urban forestry.”

From 8 a.m. to noon Saturday, the UC Cooperative Extension will present one of its quarterly workshops in a series titled “Mastering Your Home Garden.” The workshop, to be held at the Hansen Agricultural Research Education Center at 14292 W. Telegraph Road in Santa Paula (use the Briggs Road entrance) is titled “Tree Care 101 — All About Trees.”

It will include pruning demonstrations, an “ask an arborist” session and helpful handouts, including the famous UC “tree training cue card.”

Experts in this field sometimes find jobs in property management or grounds maintenance. For example, Scott Flammer, the county’s maintenance supervisor for grounds, learned about urban forestry in college and through previous jobs in grounds maintenance. Now, he and his boss, Sean Payne, oversee county properties, including the Government Center in Ventura and nearly 20 other sites.

Over the past few years, Scott, Sean and the landscape crew have used their expertise to save the two types of trees that have become iconic symbols at the Government Center. More than 200 magnolias line and form a canopy over the “fingers” of the Government Center — paved walkways extending into several acres of parking. These acid-loving trees have suffered during the drought, partly because well water used on site is salty, and salt buildup is alkaline — the opposite of acidic. Without rainfall to leach out the salt, the magnolias became stunted and started to die back.

To tackle the problem, crews watered from a different source, aerated the soil and conditioned the ground with “soil buster” to adjust the acid level. The magnolias recovered and are now thriving with the recent rains.

The other iconic tree at the Government Center is the Mexican fan palm. Falling palm fronds can be a danger, so some had to be removed. Others, such as those most visible surrounding the Hall of Administration fountain, were saved by a four-times-yearly schedule of trimming with special equipment capable of reaching the 70-foot tops without cracking the concrete underneath.

Trimming must be done to a precise standard. Too little means expensive trimming will be needed again too soon. Too much causes thinning of the trunk top, risking a break.

You will not become an expert like Scott and Sean after just one workshop. But you can increase your knowledge later this year as the UC Master Gardener program offers seasonal workshops March 28 on “Creating Your Summer Vegetable Garden,” June 20 on “Planning and Growing a Cut-Flower Garden and Creating Beautiful Floral Arrangements,” Aug. 15 on “Good and Bad Bugs; What’s Bugging Your Garden,” and Nov. 7 on “Gifts From the Garden.”

You can keep your eye on the environment by learning more about urban forestry and gardening. For more information on the workshops, contact Leah Haynes at ljhaynes@ucanr.edu.

Section 3



Housekeeping Improvements



LEED and Custodial



As the GSA works to certify more buildings in the LEED (Leadership in Energy and Environmental Design) Program, the Green processes in our Custodial Department provide the support and requirements for this program. From our Waste and Recycling programs to our Green cleaning products and practices, GSA Custodial plays a large role in the certification. A majority of the requirements were in place long before the LEED certification started, allowing us to concentrate on just a few changes.

Custodial Best Practices

The GSA Housekeeping Division is literally working around the clock to keep your work environment clean, including your air! Exposure to indoor air pollutants can cause health effects including irritation of the eyes, nose and throat, headaches, dizziness and fatigue. Certain immediate effects are similar to colds or other viral diseases.

To keep you safe, we employ a number of best practices to reduce both chemical and biological pollutants to our indoor air. Our vacuum cleaners are equipped with HEPA filtration systems. We use cleaning towels and mops with micro fiber technology to capture airborne particulate and bacteria. Our carpet cleaning equipment employs a low moisture process to eliminate spores. All of our cleaning processes are designed to minimize cleaning solution atomization into the air and volatile organic chemical concentrations. Your work environment is our business.

Microfiber Cleaning Cloths

Microfiber cleaning materials are a blend of microscopic polyester and polyamide fibers which are split in such a way as to create microscopic "hooks" which act as claws that scrape up and hold dust, dirt, and grime. They are 1/16 the thickness of a human hair and can hold six times their weight in water.

Microfiber products virtually eliminate cross-contamination during janitorial tasks. They drastically reduce chemical and water use while cleaning more effectively. Microfiber cleaning tools also absorb fat and grease and their electrostatic properties give them a high dust-attracting power.



The County of Ventura began using microfiber three years ago as part of the LEED certification program for the Vanguard Building in Oxnard. The County of Ventura is at the cutting edge of green, bacteria reducing products and will continue to review new products for smarter and safer uses.



The Microfiber tube mop is engineered with continuous filament bi-component Microfiber yarn for superior cleaning efficacy, superior absorbency, and release characteristics. It provides twice the cleaning power versus a standard cotton mop, and has triple the durability of standard blend mops, due to its headband and tailband construction. The material allows for faster drying floors and easier scrubbing of marred floors, so combined with the superior absorbency and release characteristics, we have improved and increased productivity at the same time as lowering operating costs.

Smarter Cleaning

The WaveBrake side press mop bucket combo is the most effective mop bucket ever made that helps reduce splashing. It is a 35 quart capacity bucket that has the capability to accept a



separate dirty water bucket. This system truly allows for separation of the clean water from the dirty water, making it a more efficient product all around by eliminating unproductive trips to the janitor's closet. A cleaner mop and a cleaner floor improves the cost-in-use and sustainability by reducing water.

Custodial Supplies Quality, Price or Sustainable Products?

The GSA custodial department often receives requests or questions regarding the custodial paper products and soap selected for our facilities, specifically employees and visitors ask how products are chosen. The truth is there is no one measure for any product that drives the selection, but rather a combination of criteria that is considered in our selection of products.

Due to the high volume of staff and visitors (thousands each day) we have to be concerned about price. We are spending taxpayer money on these items, and it is incumbent upon us to carefully consider the costs in relation to the product. This applies to both ends of the cost scale. Just because a product is the least expensive to purchase, it may not achieve our needs or might be of an insufficient quality.

Quality is of an equal concern. A poor quality product, no matter how inexpensive, causes other issues. Customer concerns, plumbing failures, and performance of the product all play into the issue of quality.

While trying to balance the two basic elements of price and quality, we also look to the environmental impacts caused by our products. Recycled content, landfill and water impacts, and chemical content are all considerations made in our goal to be as "green" as possible. As demand for these qualities rise, the availability increases and the price decreases, so we are always looking for the next improved sustainable product.

There is a fine balance to customer satisfaction, price, quality and responsible purchasing. The GSA custodial division continually strives to stay balanced on that fine line.

Green Soap Dispensers

Over the course of the year, GSA replaced an estimated 96% of the soap dispensers we service. The new foaming soap is not only Bio-based, but it also Green Seal Certified and free of the soon-to-be FDA banned ingredient Triclosan. The change has not only been beneficial to our customers but has reduced soap costs by **50%**.



Custodial Slip Resistant Shoes

When the slip resistant shoes the custodial staff wears has reached the limits of their usefulness, there is a way to recycle the shoes. The custodial staff turns the shoes over to their supervisor. The supervisor turns the shoes into the Inventory Management Assistant for recycling and the Inventory Management Assistant contacts the recycling vendor for pick up. In this one small way we are helping to sustain the environment.

Greening Your Cleaning Can Protect Your Health

For Eye on the Environment

By David Goldstein, Ventura County PWA, IWMD

The city of Ventura's Environmental Sustainability website asks the ominous question, "Do you know that many household cleaning products, even used as directed, could be hazardous to your health as well as the environment?" The web site follows with a series of recipes for "safe substitutes," featuring items such as "mold killers" made from tea tree oil and vinegar, furniture polish made from olive oil and lemon juice, and deodorizer made from vinegar.

Practicing what it preaches, the city requires its housekeeping contractors to use only Green Seal certified cleaning products. Green Seal, begun in 1989, is a non-profit organization evaluating and certifying the environmental claims of a variety of products. Green Seal focused first on standards for paper, and by 1993 they developed standards for the environmental claims of household cleaning products. Green Seal describes itself as using "science-based programs to empower consumers, purchasers and companies to create a more sustainable world."

"Since we started this program (requiring Green Seal certified cleaners) in 2007," said Joe Yahner, manager of the city's Environmental Sustainability Office, "our contractor has eliminated the use of many harmful cleaning products, improving indoor air quality and reducing the manufacture of toxic chemicals."

Similar to the city, the County of Ventura also uses only Green Seal certified products. However, rather than using a contractor to do the job, the County of Ventura's own General Services Agency provides cleaning services at County facilities. GSA Housekeeping staff began using the less-toxic products in November 2004. A study at that time estimated the 8 buildings (2 large and 6 small) cleaned by the General Services Agency janitors, reduced the amount of toxic products used by approximately 15,000 pounds per year after switching to Green Seal Certified products, with no additional costs.

"Custodians are the real heroes of our toxic use reduction program," reported Rosalind Harris, GSA's Manager of Facilities and Security. "They care about the environment and have always been willing to try greener products as management presents them, even if they require just a little more effort to clean."

Indeed, in some cases, elbow grease is the necessary added ingredient to make less toxic products as effective as toxic cleaners. This extra effort pays off by creating a healthier workplace, and switching to less toxic products can also enable cleaning crews to reduce the variety of specialized cleaners they use, saving money. Consolidating cleaner types enables more bulk purchasing in commercial settings, and at home it can result in fewer nearly-empty bottles cluttering a storage area.

If you do not see Green Seal certified options where you buy cleaning products, you can still make greener choices by staying away from products labeled with key words: "Danger," "poison," "caution," and "warning."

You might also avoid toxic products by creating your own cleaning, polishing, and deodorizing products from non-toxic ingredients such as baking soda, cornstarch, toothpaste, lemon juice, vegetable-based liquid soap, vinegar, and borax. When applying these cleaners, start with less abrasive tools, such as white nylon scrubbers, and then work

your way up to toothbrushes, pencil erasers, steel wool, pumice bars or single-edge razor blades if you need to really scrape and scrub.

Of course, it would be counter-productive to diligently restrict your cleaning to non-toxic methods on a daily basis and then hire a contractor to clean your rugs and upholstery with toxic cleaners. Fortunately, many cleaning companies offer plant-based, non-toxic cleaning solutions, applied in a vapor form. For example, Craig Pagett, of All Natural Enviro-Clean in Ventura, uses a tankless water heating system and automated agitators to clean carpets and upholstery with non-toxic cleaners. His truck-mounted pump sucks residual back into a tank, and after cleaning, with homeowners' permission, Pagett dumps about five gallons of leftover water and soap directly into their sewer drain.

Whether hiring a contractor or doing the cleaning yourself, you can keep your "eye on the environment" by using non-toxic cleaning solutions.

Some of the products used by GSA Housekeeping include:

Product	Manufacturer	EPA Certified Green	Green Seal	Green Replacement For:
Aquria	Diversey		X	10F949
Speedball Spray Cleaner	Diversey			
Perdiem – Dispenser Unit	Diversey		X	10A341
Virex #256 Disinfectant	Diversey			
Glance Glass Multi-Surface Cleaner	Diversey		X	
Prodtrip SC	Diversey		X	10C422

Product	Manufacturer	EPA Certified Green	Green Seal	Green Replacement For:
Bleach	Clorox			
Comet	Comet	X		
Disinfectant Cleaner	Ramsey (Diversey)	X		
Quick Spot – Carpet	Envirox		X	
Carpet Complete	Envirox		X	
H2O2 Citrus Multi-Purpose Cleaner	Enviro- Solutions		X	
Everbrite Metal Cleaner/Polish	TripleS			
Multi-Purpose Cleaner	Envirox		X	
Mineral Shock	Envirox		X	

Compostable Bags

In 2014, GSA began using compostable trash bags, to replace the standard trash bags previously in use. These bags are made with post-industrial and post-consumer recycled materials, 10% of which is New Technology Resin for more strength and source reduction. They also contain a minimum 10% post-consumer recycled material.



Construction allows for multiple uses of the liner, prevents leakage, and prevents bag failure and environmentally damaging ‘chemical cleanups’, so they begin as a friend to the ecosystem.

Compostable bags are great for contributing back to the environment, as the bags themselves can go back into the ground to make soil, mulch, or fertilizer that can be used in a garden or around the buildings, diverting plastic intended for land-fills. The decomposition is beneficial to the Earth, as opposed to biodegradable materials that simply disappear, without enriching nature or decomposing back into natural elements.

By using compostable bags for compostable waste, we are doubling our efforts to create healthy soil.

Staffing Expediency

A full staff is necessary to maintain the high standards to which we strive to achieve. A large Housekeeping staff of nearly 50 is bound to have many absences, due to vacations, illness, or other reasons. We use the services of Temporary Staffing Agencies to fill the staff shortages, which can be a time-consuming process – something of which we do not have when it comes to custodial services. It had been taking approximately 5 days per staffing request to attain all of the necessary signatures within GSA in order to submit the paperwork to the staffing agency. After examining the process and finding non-value added steps, we were able to eliminate 3-4 days of delay in processing

the request, thereby saving 8.2 hours annually. It was further determined that the request for signatures could be handled electronically via email instead of on hard copy, saving **\$405.00** annually – but more important, saving time in bringing in a temporary worker to fill a vacancy. Turnaround time from initial request to start of employment went from 18.30 days to 8.29 days, a net savings of **10 days** – which means full staff coverage much faster. And fewer worn-out employees.

Section 4



Waste Reduction

*We recycle over 50% of our waste and reduce landfill –
REDUCE, REUSE & RECYCLE*



Why Recycle?

Recycling is good for the economy and the environment for the following reasons:

- Conservation of natural resources.
- Reduction in energy and fuel required to extract and process “virgin” or primary, raw materials to manufacture new products.
- Reduction of greenhouse gases, such as carbon dioxide, methane, and nitrous oxide used to transport and process raw materials.
- Creation of jobs to sort and process recyclable materials.
- Reduction of the cost of waste disposal in landfills and incinerators.

County Policy on Recycling

The County of Ventura is very proactive when it comes to recycling, and has instituted an administrative policy to that effect.

COUNTY OF VENTURA	2018 ADMINISTRATIVE POLICY MANUAL	BUILDING AND FACILITIES CHAPTER IV (A) Operations
Originating Agency: GSA	Last Issued/Revised 2018	<u>Policy No. Chapter IV (A) - 25</u> RECYCLING POLICY
Policy Change Requires:	<input type="checkbox"/> Board of Supervisors Approval	
	<input checked="" type="checkbox"/> CEO Approval	
Forms Change Requires:	<input checked="" type="checkbox"/> CEO Approval	

Policy

The County of Ventura advocates a clean and safe environment and is committed to excellence and leadership in protecting the environment. Therefore, the County promotes environmentally sound recycling, reuse, reclamation, and source reduction of all waste streams.

It is the responsibility of every department/agency to implement waste reduction measures at the source, while maintaining operational efficiencies, quality products and services, and the safety and health of the workplace. Departments/agencies are to reduce all waste to the minimum levels economically and technically practical and to be in full compliance with all federal and state waste regulations.

Procedure

Managers and supervisors are required to review this policy with all employees and provide them with a copy of the General Services Agency (GSA) Employee Recycling guide. This guide can be obtained online at GSA's website under Facilities, Housekeeping, and Grounds. Employees are responsible for emptying Recycle All Products (RAP) boxes into centrally located blue recycle bins. GSA Housekeeping staff are responsible for disposal of recycle products. For additional information or to obtain RAP boxes and/or blue bins, please call 654-0251.

Employees are encouraged to come forth with suggestions for further reducing waste in their own work areas and in other areas for which they may have ideas. Ideas can be reported to the employee's department or to GSA Housekeeping and Grounds at 654-2116.

Green Badge System

The electromagnetic key cards that are issued to employees and vendors have a second life. When an employee or vendor badge is returned to GSA Special Services, it is deactivated and the employee identification is removed. More than **95%** of these electronic key cards can be returned to stock and reissued with a new activation and employee or vendor identification label. The overlying ID Badge is recycled. This is one more way that GSA reduces waste, both financially and environmentally.



Combo Drinking Fountain/Bottle Refill Stations

In 2013, GSA replaced traditional drinking fountains with combo units, which tracks how many bottles of water were saved, simply by filling containers at the refill stations located in assorted county buildings. As of 2019, **25,527** 16-ounce bottles of water had been saved. The number grew to **33,644** 16-ounce bottles, which includes one out of service unit. This information was provided by GSA Maintenance Department.



Safe Drinking Water

California Proposition 65, also known as the Safe Drinking Water and Toxic Enforcement Act, was designed to address growing concerns about exposure to toxic chemicals, and requires the state to publish lists of potentially harmful chemicals.

Excess nitrogen in drinking water contributes to the "blue baby" syndrome in babies under 1 year old. One of the diseases causing blue baby syndrome is Methemoglobinemia. Blood in such infants is unable to carry oxygen, and the condition can lead to death.

We at the County make sure to abide by guidelines required in order to provide safe drinking water, whether from a drinking fountain or from a faucet.



Trash, Recycling and Wet Garbage

In our continuing efforts to provide a safe, clean and healthy environment, the GSA Housekeeping and Grounds department has developed a no cost recycle removal program. Pick-ups and dumping is provided by vendor service for free. The custodial staff removes the recycle from work locations at no additional cost to departments. Thousands of employees on a volunteer basis deposit their recycle materials into the proper receptacles. We have analyzed the process and behavioral patterns of disposal and have made adjustments to the quantity and locations of dumpsters and bins.

As a result of the joint efforts of everyone, we are proud to say that we have met state standards by recycling more than 50% of the solid waste material.



By recycling **12.831 tons** of paper per year, the County avoids emissions of **4,000 metric tons** of carbon dioxide, equivalent to emissions from **7,000 cars or 20 railcars** worth of coal.

Food Waste Collection, Probation JJC

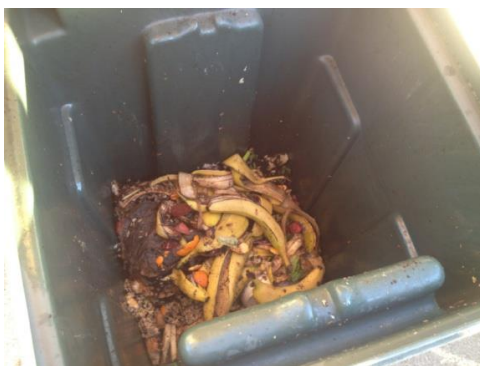
The Juvenile Justice Complex has recently implemented a food waste collection program. In just the first 6 weeks, JJC diverted 4.56 tons of organic resources from local landfills. These efforts will save landfill space, reduce harmful GHGs, reduce the need for chemical fertilizers, and prevent soil erosion. These benefits accrued no additional costs to the county. This program has also proven to increase efficiency and safety within the JJC.

The staff and student workers are now responsible to take the food trays after meals. They dispose of the food waste into a specific receptacle to be picked up. Previously, the duties to scrape the food off the trays rested on the inmates, (where often food would end up splattered on a wall or the tray would be used as a weapon). Now when the inmates are finished with a meal, they simply leave their tray on a cart. This new procedure avoids any incidents or messes from occurring.

This program is currently being monitored to reduce the number of trash compactor pickups and reduce costs. This program could not have been achieved without the help of the Division Manager Joseph Moore and the kitchen staff. The simple procedural change has proven to dynamically benefit safety, efficiency and the environment.

Food Separation Program at RAIN

Project RAIN in Camarillo is the latest county agency to participate in initiating a food separation process. The tenants, staff, and cooks, now separate and place their unwanted food scraps into a bin designated for organic materials.



RAIN's new countertop modification allows for easy disposal of organic materials, recyclables and trash. The organic material disposed is sent to our local composting facility Agromin, where it will decompose to become a rich soil amendment. This simple procedural change is responsible for preserving natural resources, reducing the amount of discards sent to landfills, reducing the need for chemical fertilizers, and conserving water due to compost's strong ability to hold moisture.

RAIN has taken it upon themselves to ensure the success of the program. To assure tenants are disposing of the food properly, RAIN has assigned one tenant after each meal, to stand next to the receptacles and inform others to dispose correctly.



The trash pickups are currently being monitored to reduce the amount of pickups per week.

Composting at Fire Department – Simi Valley Firefighters Save More Than Just Lives

Firefighters at Simi Valley Stations 44 and 45 come to the aid of the planet as well as people and property. Having demonstrated exceptional resource management practices weekly by performing basic landscaping maintenance and filling up a residential-size cart, the firefighters divert from landfills approximately **3,869 pounds** of green material per year. Their efforts help to preserve natural resources, reduce the need for chemical fertilizers, reduce soil erosion, conserve water, and help to sustain the environment for future generations.

With the opening of Agromin's composting facility in Santa Paula, the gases generated from the green materials will be converted to natural gas to power the trucks delivering the compostables, as well as the facility itself. This incredible feat is a joint effort between the Fire Department, Agromin, Waste Management, and GSA, expected in 2022.



Composting at Animal Services – Camarillo Cats and Dogs Can Compost Too!



Cats, dogs, rabbits, and horses have helped to join in a new composting program at the Camarillo Animal Services. Their unwanted food, hay, cat litter, and newspapers for lining kennels, are now being separated onsite at the shelter. These organic resources are brought to

Agromin, our local composting facility, to decompose into a rich and

safe soil amendment. Any pathogens or harmful bacteria that may be present are cooked away in the 140 ° F compost pile. These efforts have turned something that would have otherwise been land filled into a profitable and healthy soil. These efforts will also responsible for generating electricity from the natural gas emitted and collected at the new Agromin Composting Facility, as well as reducing the need for chemical fertilizers, and saving water, due to compost's ability to retain water better than dirt.

Food Waste Composting More ways to be Green at Todd Road Jail

The County of Ventura has won the 2013 Green Leadership Award in the category of Waste Management for food waste composting at the Todd Road Jail.

Keeping inmates fed at the Todd Road Jail (TRJ) is a big job. Daily, thousands of meals are prepared and served. The bi-product of the meal service is food scraps and ultimately Greenhouse Gas (GHG) emissions. Until recently, the practice of the TRJ kitchen staff was simply to throw the food scraps into the trash compactor with other trash. The contents of the trash compactor end up in the landfill, releasing tons of harmful GHG into the environment.

Recognizing an opportunity to be green, the Sheriff's Office and GSA, together with E. J. Harrison and their strategic partner Agromin, conducted a pilot program to divert TRJ food scraps from the waste stream and convert them to composted soil amendments.

During the pilot program (May 2012 to February 2013), **108 tons** of food scraps generated by the meal service operation at TRJ were diverted from the landfill by disposing them in designated food waste containers for pick up by the hauler (E. J. Harrison). The food waste containers were then delivered to Agromin to be composted for 20 days, cured for 30 days, screened, and mixed to soil amendments.

The impacts achieved during the piloting period from this process change are significant:

The pilot was so successful that that the diversion program process changes have been fully instituted and the project was submitted for a

Green California Leadership Award for outstanding environmental achievements in government.

According to Agromin, commencing in April 2013, food waste may alternatively be placed in a digester to yield methane gas for electricity production. Approximately 5 tons of food waste yields 1 megawatt of electricity.



All of the above noted composting programs are as a result of the partnership between EJ Harrison, Agromin, the General Services Agency, and the following participating agencies:

- Sheriff's Department - Todd Road Jail
- Animal Services – Camarillo
- Juvenile Justice Complex
- Human Services Agency - RAIN Project

One year's worth of contents of the Food Collection Diversion Program amounts to **1,345,366 pounds** of organic resources composted.

The following articles regarding composting and food separation were written by David Goldstein, Public Works Agency and appeared in the Ventura County Star.

Separate Collection of Food Waste Leads to Composting

Excerpted from For Eye on the Environment

By David Goldstein, Ventura County PWA, Integrated Waste Management Division.

If you believe the success of environmental programs depends on convincing participants to be environmentalists, then you might doubt a composting program could succeed in a jail. There may be many inmates whose long-term thinking and compassion have helped them develop an environmental ethic, but a jail can be tense, full of immediate concerns about safety, and far removed from motivations inspired by the tranquility of nature.

Undaunted by this challenge, the Ventura County General Services Agency (GSA), Probation Department, and Sheriff's Department have implemented some of the most successful food waste separation programs in the county, arranging for Harrison Industries to separately pick up bins of sorted, compostable material from the Todd Road Jail and the Juvenile Justice Facility, delivering these loads to Agromin's composting site at Ormond Beach. Last year, Todd Road Jail was the biggest source of food waste for the Harrison/Agromin pilot program, contributing 103 tons. In the past six weeks, the County's Juvenile Justice Facility followed the good example of the Todd Road Jail, diverting 4.56 tons of their food discards from local landfills.

Using statewide data, the California Department of Resources Recycling and Recovery (CalRecycle) estimates wasted food is the largest single category of recoverable material in our garbage, comprising 16% of the waste Ventura County sends to landfills. While many County residents waste this resource, our jails have instead been leading the way with a pilot program that organizers hope will soon become widespread. Separating food discards and sending it to a compost facility "saves landfill space and reduces greenhouse gases, while producing a product (compost) that conserves water, reduces the need for chemical fertilizers, and prevents soil erosion," according to Rosalind Harris, GSA's Manager of Facilities and Security. She also points out these environmental benefits have come "at no additional cost to the County."

As with most recycling programs implemented in difficult locations, the key to success is to make recycling easier than disposal. That way,

no one has to be convinced to develop a more enlightened world view. Whether in a jail or at an Earth Day festival, recycling has to be convenient, with adjacent containers for recycling and trash, using clear labels on sides and lids, and relying on a well-planned system of collection. At the Juvenile Justice Center, Division Manager Joseph Moore, the kitchen staff, and student workers implemented a system involving cart collection of inmates' trays, followed by separation of materials into containers. Labels on these containers show pictures of acceptable items and note in bright red the items to keep out.

Of course, food waste collection programs cannot become more widespread until we have more local facilities able to compost food waste. Of the existing composting and mulching facilities in Ventura County, only Agromin's Ormond Beach site has legal authorization to handle food. Composting food waste requires stringent environmental safeguards against odor, vermin, and other potential negative side effects. Agromin hopes to have a new facility permitted at the Limoneira Farm by the time their authorization ends at Ormond Beach.

Community Recycling, based in Sun Valley, also has a local food waste collection program, bringing food waste from about 100 accounts in Santa Paula to their compost facility in Kern County and is planning to develop a compost and waste-to-energy facility at the old Santa Paula Wastewater Treatment Plant, according to Tim Fry, the company's General Manager. Other companies, such as Farm Share, are trying to gain (or regain) permission to handle food waste, and H Cattle Company feeds specialized sources of food waste (such as packing house fruit culls) to cows.

For now, most Ventura County residents who keep an eye on the environment and want to compost food scraps have to rely on backyard composting or worm boxes, and these will be the subject of next week's column.

Transitional Living Center Helps Homeless Recycle in New Ways

For Eye on the Environment

By David Goldstein, Ventura County Public Works Agency, IWMD

When you think of the links between recycling issues and our County's homeless population, scavenging and river-bottom clean-outs might come to mind. However, recently, a far more inspiring story emerged, linking homelessness solutions to recycling solutions. The River Dweller's Aid Intercity Network (RAIN Project), Ventura County's main Transitional Living Center, worked with the Ventura County General Services Agency (GSA) to implement a comprehensive recycling program expected to save money and recover resources. The recycling program is having the added benefit of inspiring tenants, especially displaced families, with a community-building activity, involving both children and adults in making a positive contribution to their temporary home and to the environment.

In addition to starting programs in the shelter for recycling paper, steel ("tin") cans, and other items not commonly collected by homeless people, most impressively, RAIN and GSA worked with their refuse hauler (E.J. Harrison & Sons) and a local composter (Agromin) to start a program for separate collection of food scraps.

The average RAIN tenant finds more permanent housing after eight months, so as is essential for recycling programs in places with shifting populations, the program had to be simple and instructions had to be clear in order to succeed. The elegant simplicity and clarity of RAIN's comprehensive recycling program is best seen in their kitchen. Rosie Craig, RAIN's Operations Manager, worked with Sean Clark, GSA's Waste Stream Coordinator, to design and implement an impressively efficient sorting system. Cut into a countertop is a sorting area with three holes, and a separate container is placed under each hole. Each hole is labeled with both words and pictures, indicating which recyclables go into one, what types of food scraps go into another, and that remaining garbage goes into the third.

At each meal, one RAIN tenant is assigned the duty of assisting others in proper use of the sorting system, and tenants help empty each container from the kitchen into the corresponding hauler bin or cart outside for collection by E.J. Harrison & Sons. This collector then hauls the mixed recyclables from RAIN, which is near Cal State Channel Islands, to Gold Coast Recycling, in Ventura, for sorting. The hauler transports the food scraps to Agromin, near Oxnard, where covered piles, aerated with a system of pipes conducting pumped air, speed and control the composting process of turning organic discards into soil amendment.

In addition to the innovative program in the kitchen, GSA also helped RAIN begin recycling programs in each of the tenants' rooms. Each room has separate five-gallon containers for trash and for recyclables.

As with other sites where they help establish food waste collection programs for composting, E.J. Harrison is providing extra collection services (separate food waste hauling) without additional charges for a limited time, with the expectation that RAIN will be able to reduce refuse service in compensation for the extra cost. Currently, RAIN's refuse bins are collected three times per week. If getting the food waste and recyclables out of the garbage lets them cut down to only once per week, there could be a cost savings.

Tina McDonald, RAIN's Program Manager, also says, "Don't forget to mention the other positive aspects of the recycling program," noting the opportunity the 70 tenants of the shelter have for participating in a positive program. "RAIN families and individuals have struggled to gain traction after the loss of employment, housing and self-confidence," she said. "Working together to protect the environment provides the opportunity to participate in a program dedicated to the common good of their community."

As the residents of RAIN's transitional living center are starting new lives, the center's discarded resources are also getting a new start, through recycling.

You can keep your eye on the environment by implementing comprehensive recycling programs in cooperation with your hauler, and you can volunteer at RAIN by contacting them at the below web site.

Solar Powered Trash Cans at the Government Center

GSA Custodial and Landscaping has installed five self-compacting solar trash cans at the government center. Manufactured by Seahorse Power Company, these high capacity bins are designed to reduce the number or collections by up to **500%**.

Inside each unit is a compactor which is powered by a solar panel on the top of the receptacle. When the trash level reaches a set height, a sensor triggers the compaction unit. This process will repeat until another sensor determines that the contents cannot be compacted further. The unit will indicate when this level has been reached.

Typical results of this product will allow it to accept up to five times the volume of a regular receptacle before it needs to be emptied. This saves landfill space and employee labor. The solar power source makes it totally “Green”. The chute is designed to keep birds and other animals from accessing the trash. We will be monitoring the use and savings provided by these units with an eye towards utilizing more of them in the future.



CalRecycle Recycling Grant

In conjunction with Public Works Integrated Waste Management, GSA was able to order 17 trash/recycling combos and 100 blue Slim Jim recycling bins at no cost to the County, thanks to CalRecycle and their bottle grant. The combos saved \$7,948.65, and the Slim Jims saved \$6,859.37, for a total savings to the County and GSA of \$14,808.02. Discovering that we needed more Slim Jims and trash/recycling combos to accommodate offsite locations, CalRecycle and their bottle grant covered the additional expense of \$29,409.38, making a grand total savings of **\$44,217.40** to the County and GSA. Just think of how much more was saved when you consider the contents that go into these combos and blue recycling bins!

The California Department of Resources Recycling and Recovery (CalRecycle) provided the 2014/15 Tire-Derived Product (TDP) Grant for reuse of tire materials. This promoted the recycling and use of waste tires that would normally be directed to landfills. Our staff determined this tire-derived rubber mulch could be utilized to replace the grass along all five parking medians at the Government Center, amounting to approximately **52,000 square feet** of grass removed and

replaced with this mulch, thereby diverting **27,000 tires** from California landfills.

Combo Units - Trash/Recycle



Placed strategically throughout the Government Center campus are nine new Trash/Recycle combo units. These combo units are designed to make disposing of recycling as easy as disposing of trash. Although, a seemingly small change; these units will help divert waste and extend the life of our landfills.

In an effort to further extend our recycling program, new combo units have also been placed at the East County Court House, East Valley Sheriff's Station, Animal Services in Camarillo, Probation Agency in Oxnard, Child and Family Services in Oxnard, Magnolia Clinic in Oxnard, Health Care Agency in Ventura, and Human Services Agency in Santa Paula.

For further information regarding the County of Ventura's Recycling Program, please visit our informational recycling video, located at: <https://www.youtube.com/watch?v=kaNXozyaZzc&list=UU9MuTt2e0DT1jsybVeVQYgg>



COUNTY OF VENTURA

RECYCLE VIDEO

Recycling of Cardboard Rolls

In an effort to recycle as much as possible in our determination to save the Earth, the County of Ventura now recycles the cardboard rolls found inside hand towels and toilet paper rolls. On average for the Government Center and the outlying properties, we recycle 220 cardboard rolls a day. Multiple this by 5 days a week by 52 weeks a year, we are now recycling **57,200** cardboard rolls a year. Something that is so easy for us to do, but makes a huge impact on saving the planet!

Making Full Use of Large Rolls of Paper Towels – Nothing Goes to Waste

For restrooms and break rooms containing center-pull paper towel dispensers, GSA Custodians replace the rolls when they are at $\frac{1}{4}$ roll or less. The replaced paper towels do not get thrown away or recycled, but instead are used for everyday cleansing, such as cleaning and disinfecting windows, counter tops, sinks, doors, door knobs, railings, and on and on. Think of all the things you can do with $\frac{1}{4}$ roll of paper towels!

Reduction of Paper Towels-Installation of Dyson Air Blade Hand Dryers

In an effort to cut expenses and continue LEED (Leadership in Energy and Environmental Design) certification, we are installing Dyson Air Blade hand dryers in the public restrooms at two county buildings: Vanguard in Oxnard (LEED Certified) and the East county Courthouse in Simi Valley. This simple change will provide many benefits. By switching from paper towels to hand dryers in the public areas, we are seeing the following benefits:

- * Most cost effective method.
- * Reduction in paper supply and budgetary expense.
- * Will cut down on expensive plumbing issues by upset public (intentional plugging of toilets).
- * Reduction in labor + time = more efficient use of resources and available for other custodial requests.
- * Better on the environment > Green initiative.
- * Further assist LEED Certification.
- * Reduction in trash disposal > quantity and cost.
- * More sanitary hand drying option.

Vanguard

County spends \$6,136.70/year on paper towels at Vanguard per year (18% of restroom supplies - \$1,250 minimum savings).

Cleaning contractor runs \$527.24/month for day porter services (\$6,326.88/year).

County custodial billable rate is \$35.62/hour

Changing out 4 restrooms to hand dryers. (Total number of restrooms in building = 22.)

ECC

Cleaning contractor spends an average of \$350/month (\$4,200/year) on multi fold paper hand towels (17% of restrooms supplies - \$750 minimum savings).

Cleaning contractor runs \$524.24/month for day porter services (\$6,326.88/year).

Changing out 4 restrooms to hand dryers. (Total number of restrooms in building = 23.)

Calculations

Paper towel supplies = \$2,000 (\$1,250 + \$750)

Day porter services = \$12,653.76 (\$6,326.88 x 2)

Total Hard Savings = \$14,653.76

Total Soft Savings = \$89.05 (save ½ hour per day in not stocking restrooms with paper supplies and throwing away trash due to hand dryer usage).

Total Savings = \$14,742.81

Installation of Dyson Air Blade Hand Dryers in the Hall of Administration

The installation of Dyson Air Blade Hand Dryers began in 2011. Along with the hand dryers, the use of paper towels was left as an option. Although the savings aren't as great as they would be if the paper towels were eliminated, there has still been a marked savings in paper towel usage.

2008 – 2009 multi fold towels 2,070,225'

2008 – 2009 Jumbo Rolls 681,600'

2,751,825'

2011 – 2012 multi fold towels 1,944,478'

2011 – 2012 jumbo rolls 955,200'
2,899,678'

Traffic in the HOA:

2008 – 2009 average of 6,400 people per week
2011 – 2012 average of 11,000 people per week

Increase in population at the HOA of 42%

Our usage should be 3,907,592 today based on the increased population.

Our usage is 2,899,678 a savings of 1,007,914 feet of paper.

For the remaining sites where paper towels are used, all products are made from 100% recycled material.

We Recycle Our Green Waste



The County of Ventura generates green waste daily from its Landscape operations. All generated green waste materials are either applied on site or recycled. Materials generated from tree removals are ground at the site and applied. Generated green waste materials that are picked up by a rubbish company, are processed into a variety of

recycled products such as mulch, wood chips, and compost and soil amendments. We apply the processed materials in our landscape in the form of mulch to enhance the soil, save water and to reduce the need for weed control.

Vending Machines

Our Vending Machines do not use Styrofoam cups per Board of Supervisors directive. In 2004, Supervisor Steve Bennett recommended and the board approved a resolution prohibiting the use of expandable polystyrene (commonly referred to by the trade name Styrofoam) at the County Harbor, Parks, Government Center and County sponsored events.



GSA Projects Group Reduces, Reuses, and Recycles

The GSA Projects Group is responsible for project management of significant facility repairs, infrastructure replacement and upgrade, and remodeling of County facilities. Example projects include mechanical & HVAC, power distribution & lighting, plumbing, roofing, interior remodeling, paving, painting, carpet & flooring, system & free-standing furniture. The Furniture and Interiors division is responsible for servicing and reconfiguring the County's installed inventory of over 3000 panel systems furniture work stations. The team is very proud to **Reduce** by using panel system furniture in GSA facilities which is manufactured with a commitment to sustainability:

- Manufactured at an ISO 14001 certified site, using 100% renewable energy
- FSC Sustainability, Level 1 Certification
- Made from 43% recycled content
- Indoor Advantage™ Gold, air quality certification
- GREENGUARD Certified

Projects displays their **Reuse** in that:

- Over **\$250K** of County-owned modular furniture is reused annually.
- Components manufactured today are compatible with original generation.
- Some of the original furniture installed in Hall of Administration, circa 1977, is still in use today.

And the department also makes sure to **Recycle**:

- Up to 34% of the panel systems furniture is recyclable.

Recyclable and reusable materials from construction sites are not left to lie about littering the environment or our landfills. Our Job Order Contractor, MTM Construction, Inc., is a leader in recycling construction debris. MTM has recycled approximately **69%** of all construction material, year to date.



Recycled Material Summary:

Concrete: 10 Tons

Wood: 9.20 Tons

Ancillary Material: 0.07 Tons

Commingled Construction/Demolition Debris: 21.07 Tons

Electronics Recycling

The Surplus program picked up over 104,485 pounds of electronic recycling, and had 14 scheduled pickups for a total of 140 boxes (loads) with our electric waste vendor, Gold N West. The operation recovered \$15,672.75 from July 1, 2017, to June 30th, 2018. From July 1, 2018, to June 30, 2019, Surplus recovered **\$16,437.30**. From July 1, 2019 to September 1, 2019 Surplus has recycled **22,200 pounds**, recovering **\$3,330.00**. In calendar 2019 alone, Surplus recovered **\$13,267.65** in electronic recycling, and **\$782.24** in metal recycling.

Surplus also promotes reuse of products via auctions on the County of Ventura Public Surplus website. With numbers reported from roughly 90% of the participants, the County sold **\$569,635.45** in reusable products during 2019.

Custodial Crew Tablet Usage

With multiple locations of County-managed buildings, not all custodians work at sites with easy computer access, a necessity for submitting time sheets. By providing tablets with Wifi to the 12 off-site employees, travel time and material needed to reach a County-managed building in order to access computer was eliminated, thereby saving paper, toner, and time, and increasing productivity.

- Hard savings: 4,305.60 travel miles/year @ \$0.54 per mile = **\$2,325.02**.
- Soft savings: 312 hours x \$49.39 hourly rate = **\$15,409.68**.
- Grand total saved: \$2,325.02 + \$15,409.68 = **\$17,734.70**.

Digital Daily Task Sheet

Employees manually recorded their daily tasks and turned them in to their supervisor for daily review. With a large staff, this created a lot of paperwork and required a lot of time, and storage space after the fact. The forms have been digitized, making them also easier to retrieve for data analysis. We further extended the savings by having the forms created and administered internally by GSA IT, thereby eliminating carrier fees. GSA's IT department was able to develop the form at no cost, thereby saving **\$29,674.00** as quoted by another.

- Hard savings: 9,100 pieces of paper have been eliminated, at \$.07 each (including toner) = **\$637.00**.
- Soft savings: 6 tasks/year x 4 hours/task = 24 hours x \$49.39/hour = **\$1,185.36** labor savings.
- Carrier fees eliminated: 16 tablets x monthly service fee x 12 months = **\$10,419.12**.
- Development fees bypassed: **\$29,674.00**.
- Grand total saved: \$637.00 + \$1,185.36 + \$10,419.12 = **\$12,241.48**.

Recycling Toner Cartridges

Even in a 'paperless' society, everyone seems to print something every day. Toner cartridges may now have a long life, in comparison to the past, but they still eventually run out of toner and need to be replaced. What to do with your old, empty cartridge? Recycle it, of course.

In the General Services Agency Employee Recycling Guide, page 14 details two methods for recycling toner cartridges – calling the vendor (in this case Onestop for refurbished toner, Compuwave for OEM toner) to request pick up, or using a prepaid shipping label to return the cartridges directly. Onestop supplies 100% green, refurbished toners. If they pick them up for recycling, nothing goes to a landfill!

This second method is done through Clover Environmental, the source for returning toner cartridges directly to the recycling plant. They can be found at: <http://www.cloverenvironmental.com/>. Simply register your email address with them, and then follow the easy steps to either print the shipping label yourself, or have them email it to you.



Gather your toner cartridges together and place inside either the original box or a shipping carton, attach the shipping label, and deliver to the mailroom. That is all it takes to recycle your toner.

Not much effort on your part – but you are helping to save the environment.

If you need assistance with vendor response, contact Procurement at 805-645-1322.

Receiving Packages Can Be Good For The Environment

How many times do you receive a delivery from a supplier, and don't know what to do with the carton? Should you reuse it? Should you break it down and recycle it? Should you totally reduce and stop ordering items that come in cartons? GSA Shipping and Receiving takes weekly delivery of cartons of cleaning supplies, which they in turn split up and divide among the Custodial crew, making use of these same cartons. They receive approximately 15 cartons of cleaning supplies a week, which comes out to **780** cartons reused during the average year – just for one department! Think of the savings we would have if every department reused their boxes. So the next time you receive a delivery, think first about how you can reuse that carton, rather than just recycling it. Remember – it is reduce, REUSE, and recycle.

Every Day Office Supplies

Recycling is easy – and you probably do it without thinking!

The next time you receive a document with a paper clip or a binder clip attached to it, you will be helping to reduce, reuse, and recycle – simply by reusing that clip. Do you usually throw binder clips in the trash? Or do you usually use them on another document? There you go – recycling!

Think of all the other common things you do around work or at home that are second nature to you, but are evidence of your efforts to reduce, reuse, and recycle – rubber bands that come around your newspaper, or the plastic sleeves that are used on your paper on rainy days – both reused just when you need them. The back of receipts used for lists or notes to yourself. The pen you pick up when you sign in at

a Security Training class – oops! The binder you reuse for your purchase orders, year after year. Manila folders, turned inside out. Even adding more files to a flash drive, instead of taking a new one for every document you need to save. Do you recycle toner cartridges? And do you shred paper in your office? Combine the two – use the shredded paper for the filler in the used carton in which you ship back the toner for recycling.

Do you shred old spiral-bound documents? Next time, save the plastic spiral, and turn it into GSA Graphics. They will then reuse that spiral piece on another document which they bind for a customer.

It doesn't take much effort on your part to make a HUGE effort on behalf of the planet. And another benefit is that it saves money, too. Every penny counts – especially coming from nearly 9,000 County employees. Reduce, reuse, recycle.



Reuse of Bottles

GSA Custodial department receives many bottles of cleaning solutions and floor wax throughout the year. Rather than simply recycle all of the bottles, staff saves many of those bottles for their water/wax mixture, which is used for spray buffing. They also reuse the 32 ounce bottles for holding the cleaning and disinfectant Virex 256. Virex 256 comes in a 1 ½ gallon bottle, not easy to maneuver, so the premixed contents are emptied into the 32 ounce bottles for easy storage in each

individual custodian closet. With 10 closets and 3 bottles per week per closet, that totals 30 bottles a week, and **1,560** bottles a year reused.

Earth Day Handouts

The County's weeklong Earth Day celebration is one of the more popular events when it comes to handouts. We provide our annual Earth Day book, our County recycling guide, and various other documents to educate employees and the public alike. In an effort to be even greener in honor of the holiday, we decided to reduce the number of printed documents, and instead provide them digitally to the user via Quick Response Code (QR). This turned out to be quite successful. With our first year of trying this, we printed 500 fewer copies of our Earth Day book and 500 fewer copies of our recycling guide, while visits to our Earth Day page via QR hit 451 by the first day alone, and 2,285 nine months later. We plan to expand this even further in the coming year, with fewer copies of each printed, as there continue to be visits to our Earth Day page via QR, months after the celebration.

- Hard savings: 12 pieces of paper per recycling guide + 43 pieces of paper per Earth Day book = 55 pieces of paper saved. 55 x 500 copies NOT printed = **27,500** pieces of paper saved. Previous cost for 500 copies of each was **\$2,815.00**, so this was total savings for our first year going digital.
- Soft savings: Business Support did not require the same number of man hours to print and bind the documents, since there were 500 fewer of each. Hours saved = 29. 29 x \$49.39 hourly rate = **\$1,432.31** saved.
- Grand total saved: \$2,815.00 + \$1,432.31 = **\$4,247.31**.

Earth Day Tour

We added the QR Code to our annual Earth Day Tour invitation, as well as creating an electronic registration form for the tour. Using our e-invite, we received electronic registrations totaling over 100 for the 2019 tour, thereby continuing to save more paper. Great way to help save the environment!

Recognition for Earth Day Tour Efforts

On April 23, 2019, the Board of Supervisors in general and Supervisor John Zaragoza in particular recognized GSA for our continuing efforts to enrich the annual Earth Day Tour of the Government Center. GSA felt especially rewarded, as the honor and recognition is only given out to 5 individuals or groups a year. We are proud of all we have been able to accomplish with the Government Center grounds, particularly in the times of severe drought, and are anxious to share our knowledge and skills with the public. Some years used to have only 6 people attend the hour-long tour, but with the continued efforts of GSA Special Services, we have reached out to all of the schools in the county, regardless of the age of the students, as well as the Scouts and Boys and Girls' Clubs, and have watched our registrations grow to 146. By reaching so many young people with an aptitude towards the environment and helping to save the planet, we are serving to set the next generation of public servants.



Recycling Fun Facts

Did you know that recycling has been around since at least 400 BC? Archaeologists have found evidence of glass, pottery, jewelry, and bronze coins being recycled, turned into goods of greater value, or into items necessary at the time.

In pre-industrial times, items were frequently melted down for re-use, as that cost less than manufacturing new items from scratch. Even dust and ash from wood and coal fires were collected and used as base material in brick making.

Industrialization brought a slowdown of recycling, as mass-production became cheap and easy, resulting in the throwing away of items instead of reusing.

The World Wars saw an increase in recycling, due to rationing and the materials being needed at the warfront, enabling a greater chance of victory.

Since the 1970s, recycling has become popular, and the normal way of life. Curbside pick-up of recyclable goods in residential areas is done by the local sanitation companies, and Recycling Centers are open to the public, making it easy for all to participate. In a concerted effort to save our planet, environmental consciousness has brought about an awareness of what can and cannot be recycled – some of which may surprise you.

COMMERCIAL GUIDELINES



WHAT DOESN'T GO IN THE TRASH OR ANY OTHER CART?

STOP! NO HAZARDOUS WASTE!!

These items are NOT accepted for Trash or Recycling.

- Hazardous Waste
- Tires
- TVs/Computer Monitors
- Batteries
- Closed Containers
- Oil or Paints
- Fluorescent Light Tubes



Not only is recycling necessary for the planet, it is also good for the economy, conserving resources, saving money, creating jobs, and generating revenue. It is also an ethically sound thing to do, as we consider what resources will be available for future generations on this planet.

Recycling has also gotten easier over time as methods progress. What used to need to be sorted before recycling no longer requires this, as

plastics, paper, metal, and glass now all go in together. Styrofoam and food remain the most common items NOT recyclable – but almost everything else is.

The County of Ventura does its part when it comes to recycling. We have an established program, designed to make it easy for employees to recycle, and will perform on-site training. We gladly provide RAP (Recycle All Products) boxes for under your desk, which conveniently list what products can be recycled. We also provide blue bins for recycling larger objects, which Housekeeping will empty for you. We even have our own instructional video, located on the GSA Home Page, or at:

<https://www.youtube.com/watch?v=kaNXozyaZzc&list=UU9MuTt2e0DT1jsybVeVQYgg>.

During the week of November 18, 2019, we had a recycling display in the Hall of Administration main entrance, focusing on reducing and reusing, but also showing examples of what to recycle and how, an entry form for the County's Recycling Pledge, and fun and informative materials. In just two days, we were able to distribute 290 RAP boxes! We also collected e-waste for the first time, with a container at the Service Building loading dock, where people brought electronics of all kinds for recycling, including computers, printers, TVs, typewriters, stereos, and fax machines, among other things. We filled 7 pallets with collected items, weighing a total of 3,795 pounds. We also received requests to collect e-waste more often.

We were recognized by the Ventura County Board of Supervisors with a resolution proclaiming November 15, 2018 as America Recycles Day, stating that GSA Security and Special Services ensures County employees have access to convenient recycling in their workplace. We do all we can to assist.

We were once more recognized by the Board of Supervisors with a resolution proclaiming November 15, 2019 as America Recycles Day, again commending GSA for providing convenient access to employees for recycling in the 41 County buildings.



Resolution
of
The Board of Supervisors of Ventura County
Resolution Proclaiming
November 6th, 2018 as
America Recycles Day

WHEREAS the County of Ventura Public Works and General Services Agencies jointly recognize "America Recycles Day" as an annual campaign organized by Keep America Beautiful and supported by the U.S. Environmental Protection Agency (U.S. EPA), government agencies, businesses, nonprofit organizations, and individuals across the country; and

WHEREAS the U.S. recycling rate has more than tripled over the last 30 years to the current rate of 34 percent. According to most recent data from 2016, recycling and reuse activities sustained 757,000 jobs and produced \$16.6 billion in the United States in that year; and

WHEREAS there is opportunity for even more robust recycling efforts both locally and at a national level, as the U.S. EPA estimates materials worth \$0 billion are thrown away each year; and

WHEREAS recent restrictions in the international recycling marketplace mean more US-generated materials need to be processed statewide; and

WHEREAS participating in America Recycles Day 2018 is one way for communities and citizens to raise awareness about the economic and environmental benefits of reducing waste by reusing, recycling, and buying recycled-content products; and

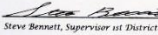
WHEREAS the Public Works Agency - Integrated Waste Management Division provides waste reduction and recycling programs to residents and businesses of unincorporated Ventura County; and


WHEREAS General Services Agency - Security & Special Services ensures County employees have access to convenient recycling in their workplaces.

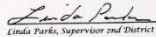
NOW, THEREFORE, BE IT RESOLVED, the Board of Supervisors of Ventura do hereby proclaim November 15, 2018 as "America Recycles Day" and urge all County residents, as well as local cities, to join in the effort to increase recycling and raise awareness about the economic and environmental benefits of reducing waste by reusing, recycling, and buying recycled-content products.

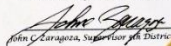
Presented This 6th Day of November, 2018


Chair, Board of Supervisors


Steve Bennett, Supervisor 1st District


Kelly Long, Supervisor 3rd District


Linda Parks, Supervisor 2nd District


John C. Garza, Supervisor 4th District



Resolution
of
The Board of Supervisors of Ventura County
PROCLAIM
November 15, 2019 AS
AMERICA RECYCLES DAY IN VENTURA COUNTY

WHEREAS the County of Ventura Public Works and General Services Agencies jointly recognize "America Recycles Day" as an annual campaign organized by Keep America Beautiful and supported by the U.S. Environmental Protection Agency (U.S. EPA), government agencies, businesses, nonprofit organizations, and individuals across the country; and

WHEREAS the U.S. recycling rate has more than tripled over the last 30 years and the recycling industry supports more than a half-million American jobs, generated \$35 billion in annual wages and contributed \$110 billion in positive economic impacts, according to a recent "Sentiment of Scrap Recycling" industry report; and

WHEREAS waste prevention is the preferred approach to solid waste management, before reuse or recycling, by avoiding costs and conserving natural resources; and

WHEREAS every consumer can actively prevent waste by reexamining their purchase of single-use, disposable, products; and

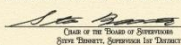
WHEREAS participating in America Recycles Day 2019 allows communities and citizens to raise awareness about the economic and environmental benefits of reducing waste by reusing, using durable instead of single-use items, and buying recycled-content products; and

WHEREAS the Public Works Agency - Integrated Waste Management Division provides waste reduction and recycling programs to approximately 100,000 residents and businesses of unincorporated Ventura County; and

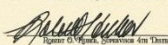
WHEREAS General Services Agency - Security & Special Services, servicing 41 County buildings, insures approximately 8,000 County employees have access to convenient recycling in their workplaces.

NOW, THEREFORE, BE IT RESOLVED, that the Ventura County Board of Supervisors does hereby proclaim November 15, 2019 as "America Recycles Day" and urges all County residents, as well as local cities, to join in the effort to increase recycling and raise awareness about the economic and environmental benefits of reducing waste by reusing, recycling, and buying recycled-content products.

Presented on this 5th day of November 2019


Chair of the Board of Supervisors
Steve Thibault, Supervisor 1st District


Linda Parks, Supervisor 2nd District


Robert C. Foy, Supervisor 4th District


Kelly Long, Supervisor 3rd District


John C. Garza, Supervisor 4th District

Remember, recycling is easy, so why not do your part today?

If you have any questions about recycling, or would like to schedule a training, please contact Cyndy Taschman, GSA Security and Special Services, at (805) 654-2051.

Recycling Pledge

We know that the County strongly encourages all employees to recycle, but now we have made it even easier to sign up to recycle.

By going on the new link to 'Quick Info' on the GSA Homepage, you can pull up the 'Recycling Pledge', complete the form online, and then click on the 'Submit' button. That is all it takes – very little effort from you, but it can accomplish so much in an effort to try to save the planet.

If you have not already taken the Recycling Pledge, why not do it today? Your participation WILL make a difference!

Recycling Pledge

Name: <input type="text"/>	Employee ID: <input type="text"/>
Email: <input type="text"/>	Phone: <input type="text"/>
Brownmail: <input type="text"/>	

The County of Ventura places a high priority on protecting the environment. As an employee of the County, I

pledge to:

- 1. REDUCE** the amount of materials and supplies used so there will be less to dispose of. I will avoid the use, generation and release of toxic substances.
- 2. REUSE** materials and supplies to the extent possible rather than disposing of them.
- 3. RECYCLE** all recyclable materials properly, never placing them into trash bins. I will strive to purchase recyclable products when available.
- 4. I will comply with all applicable environmental regulations and laws.**

[For more information on the County Green Initiatives Programs click here.](#)
(clicking this link will navigate you away from this form)

Section 5



Climate Action Change



Climate Change

It is no secret that our climate is changing. We are experiencing global warming as a result of the greenhouse effect, which is the process of heat absorption by certain gases in the atmosphere. They are called greenhouse gases because they effectively 'trap' heat in the lower atmosphere and some of this heat is re-radiated downward. Water vapor is the most abundant greenhouse gas, followed by carbon dioxide. Man has created this warming effect by the extreme use of fossil fuel. The product of fuel combustion is carbon dioxide, which is released into the atmosphere. The greenhouse effect caused by utility plants, automobile and textile plants, fossil fuel consumption contributes greatly to global warming. This warming is harmful to our health and environment:

- Human Health: Tropical countries will experience increased heat stress.
- Sea Level: The sea level will rise due to the melting of the glacial ice cap and thermal expansion, *(which is the tendency of matter to increase in volume when heated. When a substance is heated, its constituent particles move around more vigorously and by doing so generally maintain a greater average separation)*. Homes will be lost due to flooding and subsequent storms created by the change in sea water volume.
- Ecological System: Some plants and animals will not be able to adapt to the temperature change and the rise in sea level. They will die.
- Agriculture: Extreme increase in temperature will be harmful to our plant food source.
- Water Supply: Climate change will exacerbate water shortages in many water scarce areas of the world.

Possible Solutions

- Reduce carbon dioxide emissions
- Increase biological removal of carbon dioxide emissions
The later can be accomplished by the natural function of plants, which is to take up carbon dioxide through photosynthesis. Photosynthesis is the conversion of light energy into chemical energy by living organisms. The raw materials are carbon dioxide and water, the energy source is sunlight, and the end-products include glucose and oxygen. It is arguably the most important [biochemical pathway](#), ^[1] A portion of the carbon is then stored in

plant biomass and in soil organic matter. The amount of storage in natural systems can be increased through better landscape management.

GSA Landscape department is doing its share to benefit from this process. We have over 2,710 trees over 55.5 acres of land inventory and have developed a plan to properly treat and preserve trees, while taking into consideration the maturity contributor. We try to maintain a balance of young and old to ensure that there will always be mature carbon dioxide absorbing trees around for years to come. We are careful to maintain open green acreage while taking advantage of IPM methods to preserve our environment by reducing the amount of chemicals used in our tree treatment and landscape treatment programs. We are continually looking for new ways to reduce impacts that may have a negative effect on our environment. We are doing our best to “Go (Stay) Green”.

Climate Change Mitigation

Climate change mitigation may be defined as any attempt to reduce the rate at which greenhouse gases are accumulating in the atmosphere.

We absorb climate action by maintaining healthy trees. Through the process of photosynthesis, trees are able to absorb carbon dioxide from the atmosphere, however much of the carbon that is initially captured is released through respiration.

In addition to our trees reducing greenhouse gases, we reduce greenhouse gas emissions (GHG) by diverting solid waste from landfills.

Waste over time produces and emits carbon dioxide. By reducing waste we reduce this occurrence. By recycling 12,831 tons of paper each year, the County avoids emissions of 4,000 metric tons of carbon dioxide.

Greenhouse Gas Reductions

Trees and plants reduce carbon dioxide in our atmosphere, therefore reducing the warming “greenhouse” effect of the gas. Plants and trees do this in more than one way.

As plants and trees grow they take carbon dioxide out of the air and transform the carbon dioxide into, roots, shoots, leaves, bark, flowers and wood. This is a basic function of Photosynthesis by which plants and trees produce food for growth and sustainability. Over the life time of a tree, several tons of carbon dioxide is taken up. The carbon is taken from the atmosphere and tied up in the tissue of plants in a process called "carbon sequestration". Plants and shrubs do this to a lesser degree due to their size.

Trees in particular, produce shade and transpire water, in doing so they lower air temperatures and, therefore cut energy use, which reduces the production of carbon dioxide at the power plant.

The GSA Grounds department is responsible for the care of 2,710 trees. These trees can remove as much as 44 tons of CO₂ per year. In addition, they can remove 7,600 lbs. of ozone, 5,700 lbs. of particulates and 2,850 lbs. of nitrous oxide each year. These same trees will produce 4,100 lbs. of oxygen for us to breath.

Trees have many benefits in addition to their effect on Greenhouse Gases. Trees and plants are an essential component to a healthy environment. Studies have shown that the prevalence of Asthma is greatly reduced in areas having trees. Trees reduce soil and polluted runoff into our streams and waterways. Trees provide beneficial psychological effects for most people. They provide habitat for a number of living organisms such as; birds, squirrels and butterflies.

The benefits of trees are many, but they do come at a cost. There are costs for planting, staking, watering, pest control, fertilization, pruning and general maintenance. The GSA Grounds Department has developed comprehensive tree programs that provide for public safety and sustainability of our trees.

Over the past year we have had to remove trees for various reasons. Removal of trees is always a last resort. Trees are only removed if they have structural defects, excessive decay or disease. These conditions weaken the tree and increase the potential for branches to fall off or for the tree to fall over. Public safety is always a major concern. Recently, seven trees were cabled that had weak branch structure as a means to prevent limb or trunk damage and for safety reasons. In the coming year we will be planting ten trees to replace those that were lost. The Government Center Campus Urban Forest is fairly dense, our

tree plan includes sustainability. We have been able to maintain the same approximate number of trees over the years. We have managed to install a number of California Native trees that are doing quite well.



Our Copier Vendor

Advanced Office Automation Inc. uses “Energy Star” machines and 70% recycled paper. The vendor also recycles toner cartridges and uses recycled toner cartridges.

Vending “Energy Star” Machines

Energy Star qualified new and rebuilt refrigerated beverage vending machines can save more than 1,700 kWh/year, per unit, or \$150 per unit, annually on utility bills.

New and rebuilt refrigerated beverage vending machines that have earned the Energy Star are 50% more energy-efficient than standard machine models.



Energy Star qualified new and rebuilt vending machines incorporate more efficient compressors, fan motors, and lighting systems to keep beverages just as cold and the machine visible while using less energy.

Energy Star qualified new and rebuilt machines come with a low power mode option that allows the machine to be placed in low-energy lighting and/or low-energy refrigeration states during times of inactivity.

Carpool Parking Program

GSA Security oversees the carpool parking program. This includes, making sure there are enough carpool stalls available to carpoolers by conducting surveys and statistical analysis. In addition, we process and issue all carpool permits countywide, and we monitor the parking lots to insure that only participants park in the carpool stalls. Failure to do



so results in citation issuance. We are pleased to report that there are 219 current participants in the program.

Bike Lockers and Bike Racks

Did you know that riding a bike cuts your fuel emissions completely? Bikes provide a cleaner form of transportation than cars, buses, trains or other forms of public transportation. Not only do bikes cut down on the number of vehicles on the road, they cut down on congestion. This means fewer vehicles sit idling in traffic, ultimately reducing the time that the remaining cars spend on the road, thus lowering their emissions. Let's say you spend an average of three hours a day in your car and reduce it two hours. You could save seven hours of greenhouse gas emissions, which is a remarkable step. In a year you would be responsible for stopping **365 hours** of greenhouse gas emissions. That is the equivalent of an hour a day.

Using a bike rather than a car also reduces the need for metals used in production. Metals used to produce vehicles must often be mined from the earth, which can devastate landscapes and cause deforestation. Pollution may enter the atmosphere through the extraction of these raw materials as well. Contamination of water sources is one of the most serious results of mining. Even small-scale mining can leave landscapes barren of vegetation for years, contributing to global warming by removing trees that clean the atmosphere.

Bike riding is also good for your physical and emotional well-being. Riding a bike gives you the opportunity to talk to people and get to



know your neighbors, leading to a sense of community. It also lends itself to peacefulness of the mind and conditioning of the physical body. It increases cardiovascular fitness, and muscle strength and flexibility, while improving joint mobility, and posture and

coordination. It strengthens bones, decreases stress levels and body fat

levels, and is excellent for the management of disease. With so many bike lanes marked on the roads in Ventura County, your choice is almost made for you.

Bikes also take up a lot less space than cars; on the road and in parking lots. When you ride a bike, you help reduce the need for more roads. This is huge as the materials used to build roads add to pollution. Paved surfaces also increase the "heat island effect." This is when built-up areas are several degrees hotter than surrounding rural areas. This translates into an increased demand for energy, especially in warmer months and greater energy-related greenhouse gas emissions. Narrower streets with planters and space for trees, green spaces and pocket parks in place of parking lots will make a city greener, healthier and more beautiful.

Here at the County of Ventura, we provide, free of charge, bike lockers and bike racks for county employees wishing to bike to work. The County of Ventura, General Services Agency, Security and Special Services division, is responsible for and manages the bike locker program. In 2019, we added 4 more bike lockers to the Williams Drive location in Oxnard. The bike lockers we use are made of recycled materials, including Styrene. California Proposition 65, also known as the Safe Drinking Water and Toxic Enforcement Act, was designed to address growing concerns about exposure to toxic chemicals, and requires the state to publish lists of potentially harmful chemicals. Styrene appears on that list, but testing has proven that the resin used in these bike lockers IS California Proposition 65 compliant. These bike lockers are safe and reliable for long-term bicycle storage.

In 2019, we also began the process of replacing the doors on our existing bike lockers. Currently, the bike lockers require a sturdy external lock, provided by the registered user. In the event the user loses their key or forgets their combination, Security must come and cut off the lock – but only at the same time that the user places a new lock on the bike locker door – we will not leave any bike lockers unlocked. With the new door, no physical lock is required, because the lockers all contain a Bluetooth lock. This allows for motorized latching and unlatching of the bike locker door. Each user will have their own specific code, linked directly to that one bike locker. GSA Security and Special Services has a bypass key in the event that access is needed in an emergency (or the user forgets their code), but otherwise, the user

is the only one who will know their code, and the only one who will know if their locker is empty or full. GSA Security and Special Services will also be able to generate reports with this new door, allowing us to track how often people actually ARE opening and closing their bike locker door as they ride to and from work. If we find that there truly is substantial use and a need of the bike lockers, this will only encourage us to install more lockers at various locations. Even now, we currently have a waiting list for some of the locations closest to the users' offices.



We have several locations for bike lockers and bike racks at the Government Center as well as most offsite locations.

Bike Lockers are located at the following sites:

Government Center	Telephone Road
(A Lot, E Lot, G Lot, H Lot, R Lot)	Vanguard
County Square Drive	East County Courthouse
Williams Drive	

County employees wishing to apply for a bike locker can go to:
https://gsa-docushare.countyofventura.org/lfservlet?DFS_Action=RouteGetForm&DFS_EventID=6377b00856ae44187e4d09f0_1203808027&DFS_DataSource=1&DFS_FormType=crp

Bike Racks can be found at various locations both onsite at the Government Center and at most offsite locations. They are on a first come, first serve basis.

For more information on the new bike locker system, please contact Cyndy Taschman at 805-654-2051.

Electric Vehicles

In early 2020, GSA Fleet Services added 14 long-range 2019 Chevy Bolt Electric Vehicles (EV) to the County's Central Motor Pool, thereby increasing the County's fleet to include a total of 25 fully-electric or plug-in hybrid EVs. These newer electric vehicles are the first all electric cars to offer 238 miles of range on a full charge.

Even when the electricity used to fuel electric vehicles comes from the dirtiest coal-dominated grid in the US, electric vehicles still produce

less global warming pollution than their conventional counterparts. The average EV in the US today produces the emissions equivalent of a gasoline car that gets 73 miles per gallon. The emissions performance of EVs is set to further improve as wind and solar power displace coal-fired electricity generation.

Electric vehicles are an essential part of the Union of Concerned Scientists' plan to cut the nation's oil use in half in twenty years. Using oil causes an array of problems, and transportation remains reliant on oil as the dominant energy source. Electric vehicles offer the potential to disrupt this status quo relationship between transportation and oil, and offer a cleaner, better way to fuel transportation for everyone. Overall, electric vehicles can cut US oil use by 1.5 million barrels a day by 2035.

At the County, we are proud to do our part to assist in the reduction of emission.



Continued Environmental Leadership

The County of Ventura has received numerous awards for its efforts in energy efficiency and reducing greenhouse gas (GHG) emissions. In 2016, the County joined the Beacon Program, which is a voluntary award program that assists local governments in producing measurable achievements in five areas: Agency Greenhouse Gas Reductions, Community Greenhouse Gas Reductions, Agency Energy Savings, Natural Gas Savings and Sustainability Best Practices. During its first year participating in the award program, the County received a Gold Level Beacon Spotlight Award for 11% Agency Energy Savings resulting in approximately **8 million** in kilowatt hour (kWh) savings. Since then, the County has saved more than **11 million kWhs**, which is equivalent to powering **1,338 homes'** electricity use for one year. The County achieved these kWh savings through switching lighting to

LEDs, HVAC system upgrades, and utilizing utility management software to monitor energy use in agency buildings.

That same year, the County was also awarded a Gold Level Beacon Spotlight Award for Reductions in Agency Greenhouse Gas (GHG) Emissions for its efforts in developing a Climate Protection Plan (CPP) for Government Operations. The CPP lays out a roadmap and strategies to reduce GHG emissions by setting out 6 major action areas and 15 climate protection commitments that provide direction for the next decade and beyond. Through implementing the CPP strategies, the County was able to achieve 12% GHG emissions reductions in 2016 through installing over **3,600** solar panels at the Ventura Government Center. This solar array supplies more than 10% of the electricity needed at the Government Center and reduced the County's GHG emissions by about **532 metric tons** per year, equivalent to charging 68 million smartphones. Solar panels have also been installed at the Moorpark Wastewater Treatment Plant, Todd Road Jail, and Juvenile Justice Center in El Rio for a total of more than 3.5 million kWh saved. Since 2016, the County has achieved additional GHG emission reductions through purchasing energy from renewable sources; thus, far exceeding the GHG emission goals included in the CPP.



In 2017, the County received a Platinum Level Beacon Spotlight Award for Sustainability Best Practices. The County's best practices include achieving water savings by utilizing recycling water and reducing irrigation water use by 88% at County buildings, recycling more than 140,000 pounds of electronics, and replacing lawns with avocado and lemon trees to provide for Todd Road Jail. Other County sustainable activities include developing a Municipal Energy Action Plan, participating in the Cool Planet Program, and implementing U.S. Green Building Council's Leadership in Energy and Environmental Design techniques in construction of the Vanguard Building, Juvenile Justice Center, and Ventura County Medical Center's new north tower wing. Lastly, the County's Public Works Department utilizes sustainability

best practices through sharing construction equipment and utilizing an Integrated Pest Management Program with Raptor perches.

Recently, Ventura County was one of the first counties in the state to be awarded a Gold Level Beacon Spotlight Award Natural Gas Savings. The County received the award in 2019 through achieving a 14% reduction in natural gas usage. These reductions occurred from 10 energy efficiency retrofits undertaken at agency facilities resulting in more than 97,000 therm savings, which is equivalent to removing 109 gasoline passenger vehicles from our county roads for one year.

Alternative Transportation Efforts

The County is working hard to convert agency fleet vehicles to higher efficiency and alternative fuel vehicles. The County's fleet includes 36 hybrids, 11 plug-in hybrid electric vehicles (EV), two fully-electric vehicles, and two heavy duty hybrid delivery trucks. The County provides instructional videos and training materials to staff for operating EVs, including hosting EV Lunch and Learns where employees can learn about available EV rebates and incentives, charging options, and available EVs. On September 17, 2019, the County of Ventura in partnership with Ventura County Regional Energy Alliance hosted its inaugural Ventura County EV Ride and Drive event. The event invited County staff and community members to test drive a variety of EVs and electric bikes, learn from industry experts, and enjoy food and giveaways. The goal of the event was to promote the clean-air benefits, cost-savings, and fun provided by driving an EV.



Additional County-lead alternative transportation efforts include installing 10 public EV charging stations and using renewable diesel for County fleet vehicles, which has reduced GHG emissions by 983 metric tons of carbon dioxide equivalent removing 13 tanker trucks worth of gasoline from our county roads.

Section 6



Credits



Vendors Are Our Partners

The Vendors listed below have agreed to use green products whenever feasible; to use Integrated Pest Management Practices, and abide by the Storm Water Requirements for the County of Ventura.

Agromin – Provides composting services and mulch for County properties.

All Desert Sweeping - Provides quarterly parking lot sweeping services for Saticoy Yard, 855 Partridge, 1400 Vanguard, 2220 Gonzales Road, Telephone Road Building, Juvenile Justice Center - Probation, 1911 Williams Drive, 646 and 669 County Square Drive, and the County Government Center.

Alternative Maintenance Services – Performs maintenance on the new irrigation system. Also assisted in bringing in 2 additional phones online with the irrigation system. Further implementation will be tied to the well replacement project.

American Resource Recovery - Provides recycle waste service for County of Ventura.

Aramark – Provides County uniform laundering services for Housekeeping and Grounds departments.

Athens Environmental – Provides rubbish and recycling services for the County of Ventura in the Santa Paula vicinity.

Bee Care Specialists – Provides live bee relocation services for the Grounds department.

E. J. Harrison - Provides rubbish and recycling services for the County of Ventura.

Enhanced Landscape - Provides general landscape maintenance services for multiple County properties including planting, pest control, irrigation management, and tree health assessments. Installs landscape projects as required.

Gared Corrugated – Provides RAP boxes.

G.I. Industries - Provides rubbish and recycle waste removal for County properties in East County area (Simi Valley).

Greene Tree Care Services - Provides tree trimming service. This includes removals and emergency services.

Hope Pest Control – Provides structural pest control service.

House Sanitary – Custodial supplies, including Green Seal Certified.

Imperial Sprinkler – Provides irrigation technical support services for the Sentinel Irrigation Central Control System.

Jordan, Gilbert, and Bain – Provides landscape and architectural services.

Kastle Kare - Provides rodent control for the Government Center, 855 Partridge, and 646 and 669 County Square Drive.

O'Connor & Sons - Provides structural pest control service.

Pride Industries – The contracted vendor for custodial services at the County of Ventura.

R.A. Atmore & Sons – Provides non-chemical weed abatement services at selected properties and towers.

Sinclair Sanitary – Custodial Supplies, including Green Seal Certified.

Ulrich and Ulrich - Provides power washing for sidewalks, docks, trash compactors and cement staircases.

Venco Power Sweeping – Provides sweeping services at the Government Center, including special sweeping specifications relating to newly installed pervious paving.

We Do Windows – Provides window washing service.

West Coast Arborist – Provides tree trimming.

Our County of Ventura Partners

Public Works Agency – Providing **\$44,217.40** for 3 grants to cover cost of 195 combo units and Slim Jims; participates in Earth Day Tour

Resource Management – Assists with connecting communities with CalRecycle

Risk Management – Assists with proper recycling of batteries

Sustainability Division, CEO – Assists with environmental leadership

GSA Business Support – Graphics creates our wonderful artwork

GSA Maintenance – Maintains our sustainable systems

GSA Projects – Designed and installed our sustainable systems

GSA Procurement – Generates purchase orders with our vendors

GSA Accounting – Supports water management

Points of Contact

<u>Name</u>	<u>Position</u>	<u>Phone</u>
Paul Lo Verme	Department Head	(805) 654-3721
Jose Olvera	Landscape Specialist	(805) 654-3821
Cyndy Taschman	Project Coordinator	(805) 654-2051
Sean Payne	Division Head	(805) 654-3816
Patrick Squires	Division Head	(805) 654-2116
Dawn Julien-Burns	Custodial Contract Administrator	(805) 654-3810
Stephanie Peres	Special Events Coordinator	(805) 477-7187
Jim Dorman	Warehouse Supervisor	(805) 654-3749



Business Support Graphics Staff:
Jeff Chiarella, Donna Schmidt, Esme Squires



"I love a Bat Cave made out of old recycled materials!"



"Recycling makes me happy, and gives me such pretty jewelry!"



"I choke up when I think of people who don't recycle!"



Custodial Staff:

Edgar Villasenor

Pedro Baylon
 Marcos Cavazos
 Salvador Duarte
 Maria Espinosa
 Sean Mumper
 Janice Pulley
 Jerome Rabago
 Feliciano Rodriguez
 Zabri Torres
 Robert Windrem

Kelli Stewart

Daniel Aguiniga
 John Barron
 Ron Everman
 Joe Magdaleno
 Josephina Perales
 Alejandro Ramirez
 Jose Marquez
 Ellen Reclusado
 Francisco Sanchez
 Cinthya Santos

Janina Gonzalez

Paul Almanza
 Paul Anda
 Ariana Ayala
 Kenneth Bowman
 Juan Esparza
 Emmanuel Fogata
 Hector Garcia
 Steven Harvey
 Andrew Juarez
 Efrain Leyva
 Sandra Lopez
 Joseph Macias
 Rose Magdaleno





Landscape Staff:

Lorenzo Villa, Antonio Barajas-Trujillo, Jose Olvera, Jorge Valladares,
Sabino Benitez, Steve Romero, Jeff Ellis



How you can help in the future

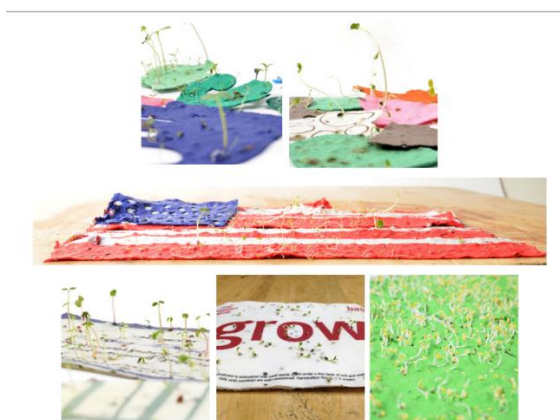
There are lots of options to take to help with saving the planet. One of the easiest and most pleasing is to use seed paper instead of plain paper.

Seed paper is made from a natural cotton fiber, is biodegradable, and grows into wildflowers, herbs, vegetables, and other plants. By planting the seed paper in your garden, you are nourishing the soil and cleaning the air.

Just imagine if all the junk mail you receive was printed on seed paper. You could put the seed paper directly into the ground instead of filling your recycle bin, water it, and then let the sun do its job. You would be replenishing the earth, and creating a beautiful garden at the same time.

And not just junk mail. You can buy greeting cards made out of seed paper, bookmarks, invitations, ornaments – basically any type of stationary.

Think about it. Feel some seed paper today, and you will know what you are giving back to the planet.



[illegible]

Climate Action 2020

Climate change represents the biggest challenge to the future of humanity and the life-support systems that make our world habitable.



*Special Services,
Housekeeping
and Grounds*

