

May 2021

Special Cleanup

Visual Assessment

Upper Malibu Creek Trash
TMDL Assessment Form

Event Type

☒ BMP Cleanup

☐ MFAC Assessment

Observer Ron Manwill

Date: 5/18/2021

Site Medea Creek

Staff J. Irwin

Comments High overgrowth @ water line

AHWL: Pieces 8

Weight (lbs) 0.02

Vol. (cu ft) 0.05

BHWL: Pieces 5

Weight (lbs) 0.01

Vol. (cu ft) 0.05

Miscellaneous	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard				
	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or pipette			
Construction				
	(Other/Unknown)			
	Brick			
	Rebar			
	Wood			
Fabric				
	(Other/Unknown)			
	Natural (e.g. cotton)	<u>1</u>		
	Synthetic (e.g. nylon)	<u>1</u>		
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Glass				
	(Other/Unknown)			
	Bottle			
	Shards	<u>III</u>		

Metal	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)	1		
	Can			
Paper				
	(Other/Unknown)			
	Box			
	Cardboard			
	Cup			
	Office			
	Paper Bag		11	
Plastic				
	(Other/Unknown)		1	
	Ammo			
	Balloon			
	Bottle			
	Cap			
	CD/DVD			
	Cup			
	Food Container		1	
	Glove			
	Hose			
	Lid/Straw			
	Pipe/Rope			
	Plastic Bag			
	Six-Pack Ring			
	Tarp			
	Tire			
	Wrapper			
Styrofoam				
	(Other/Unknown)			
	Block			
	Cup		1	
	Food Container			
Toxic				
	(Other/Unknown)			
	Battery (small)			
	Battery (vehicle)			
	Chemical Container			
	Electronics			

RSBW Trash TMDL

Special Cleanup Event

Date: 5/18/21

Time: 9:10

Site #: Medea

Before / After

(circle one)



RSBW Trash TMDL

Special Cleanup Event

Date: 5/18/21

Time: 9:40 AM

Site #: Medea

Before / After

(circle one)

Upper Malibu Creek Trash
TMDL Assessment Form

Event Type

☐ BMP Cleanup

☒ MFAC Assessment

Observer

Date:

5/26/21

Site

MEDEA

Staff

Z. HOAGLAND

Comments

OVERGROWN

AHWL: Pieces

8

Weight (lbs)

.18

Vol. (cu ft)

.05

BHWL: Pieces

3

Weight (lbs)

.13

Vol. (cu ft)

.05

Miscellaneous	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)	<u>111</u>	<u>1</u>	<u>POCKET KNIFE</u>
	Automotive			
	Cigarette	<u>1</u>		
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or pipette			
Construction	(Other/Unknown)			
	Brick			
	Rebar			
	Wood			
Fabric	(Other/Unknown)			
	Natural (e.g. cotton)			
	Synthetic (e.g. nylon)			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Glass	(Other/Unknown)			
	Bottle			
	Shards	<u>11</u>		

TIN FOIL,
RUBBER
GLOVE
CERAMIC

Metal	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)			
	Can			
Paper				
	(Other/Unknown)	//		
	Box			
	Cardboard			
	Cup			
	Office			
	Paper Bag			
Plastic				
	(Other/Unknown)			
	Ammo			
	Balloon			
	Bottle			
	Cap		/	
	CD/DVD			
	Cup			
	Food Container			
	Glove			
	Hose			
	Lid/Straw			
	Pipe/Rope			
	Plastic Bag			
	Six-Pack Ring			
	Tarp			
	Tire			
	Wrapper	/	/	
Styrofoam				
	(Other/Unknown)			
	Block			
	Cup			
	Food Container			
Toxic				
	(Other/Unknown)			
	Battery (small)			
	Battery (vehicle)			
	Chemical Container			
	Electronics			

MALIBU TMDL

MEDEA CREEK

Day 1: Special Clean-Up

Date: _____

BEFORE

LINDERO CREEK

Day 2: Visual Assessment

Time: _____

AFTER

0910

MALIBU TMDL

MEDEA CREEK

Day 1: Special Clean-Up

LINDERO CREEK

Day 2: Visual Assessment

Time: 0925

Date: _____

AFTER

BEFORE

June 2021

Special Cleanup

Visual Assessment

Upper Malibu Creek Trash
TMDL Assessment Form

Event Type

☒ BMP Cleanup

☐ MFAC Assessment

Observer

Date:

6/15/21

Site

Medea creek

Staff

J. Irwin

Comments

AHWL: Pieces

3

Weight (lbs)

0.02

Vol. (cu ft)

0.05

BHWL: Pieces

6

Weight (lbs)

0.19

Vol. (cu ft)

0.1

Miscellaneous	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard				
	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or pipette			
Construction				
	(Other/Unknown)			
	Brick			
	Rebar			
	Wood			
Fabric				
	(Other/Unknown)			
	Natural (e.g. cotton)			
	Synthetic (e.g. nylon)			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Glass				
	(Other/Unknown)			
	Bottle			
	Shards			

Metal	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)			
	Can			
Paper				
	(Other/Unknown)	1	1	mask
	Box			
	Cardboard			
	Cup			
	Office			
	Paper Bag			
Plastic				
	(Other/Unknown)			
	Ammo			
	Balloon			
	Bottle			
	Cap			
	CD/DVD			
	Cup		1	
	Food Container			
	Glove			
	Hose			
	Lid/Straw		1	
	Pipe/Rope			
	Plastic Bag	1	1	
	Six-Pack Ring			
	Tarp			
	Tire			
	Wrapper			
Styrofoam				
	(Other/Unknown)		1	
	Block	1		
	Cup			
	Food Container			
Toxic				
	(Other/Unknown)			
	Battery (small)			
	Battery (vehicle)			
	Chemical Container			
	Electronics			

MALIBU TMDL

MEDEA CREEK

LINDERO CREEK

Day 1: Special Clean-Up

Day 2: Visual Assessment

Date: 6/15/2021 Time: 8:45 AM

BEFORE

AFTER

MALIBU TMDL

MEDEA CREEK

LINDERO CREEK

Day 1: Special Clean-Up

Day 2: Visual Assessment

Date: 6/15/2021 Time: 9:00 AM

BEFORE

AFTER

Upper Malibu Creek Trash
TMDL Assessment Form

Event Type

☐ BMP Cleanup

☒ MFAC Assessment

Observer Ben Marwill

Date: 6/29/21

Site Medea Creek

Staff J. Irwin

Comments _____

AHWL: Pieces 6

Weight (lbs) 0.06

Vol. (cu ft) 0.05

BHWL: Pieces 5

Weight (lbs) 0.09

Vol. (cu ft) 0.1

Miscellaneous	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)			
	Automotive			
	Cigarette			
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Biohazard				
	(Other/Unknown)			
	Diaper			
	Excrement			
	Syringe or pipette			
Construction				
	(Other/Unknown)			
	Brick			
	Rebar			
	Wood			
Fabric				
	(Other/Unknown)			
	Natural (e.g. cotton)			
	Synthetic (e.g. nylon)	<u>1</u>		
	Food Container			
	Furniture			
	Household Items			
	Sporting Good			
Glass				
	(Other/Unknown)			
	Bottle			
	Shards	<u>1</u>		

Metal	Category	Above High Water Line	Below High Water Line	Notes
	(Other/Unknown)	11	11	Aluminum
	Can			
Paper				
	(Other/Unknown)	11	1	Paper
	Box			
	Cardboard			
	Cup			
	Office			
	Paper Bag			
Plastic				
	(Other/Unknown)		1	
	Ammo			
	Balloon			
	Bottle		1	
	Cap			
	CD/DVD			
	Cup			
	Food Container			
	Glove			
	Hose			
	Lid/Straw			
	Pipe/Rope			
	Plastic Bag			
	Six-Pack Ring			
	Tarp			
	Tire			
	Wrapper			
Styrofoam				
	(Other/Unknown)			
	Block			
	Cup			
	Food Container			
Toxic				
	(Other/Unknown)			
	Battery (small)			
	Battery (vehicle)			
	Chemical Container			
	Electronics			

MALIBU TMDL

MEDEA CREEK

LINDERO CREEK

Day 1: Special Clean-Up

Day 2: Visual Assessment

Date: 6/29/21

Time: 9:05

BEFORE

AFTER



MALIBU TMDL

MEDEA CREEK

LINDERO CREEK

Day 1: Special Clean-Up

Day 2: Visual Assessment

Date: 6/29/21

Time: 9:25

BEFORE

AFTER



Central Services
Joan Araujo, DirectorEngineering Services
Christopher Cooper, DirectorRoads & Transportation
Christopher Kurgan, DirectorWater & Sanitation
Joseph Pope, DirectorWatershed Protection
Glenn Shephard, Director

December 15, 2021

Dr. L.B. Nye, Chief of Regional Programs
Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

SUBJECT: 2021 Upper Malibu Creek Trash TMDL Annual Monitoring Report

Dear Dr. Nye:

On behalf of the County of Ventura (County) and Ventura County Watershed Protection District (VCPWD), I am pleased to submit the enclosed Upper Malibu Creek Trash Total Maximum Daily Load (TMDL) Annual Monitoring Report for the July 2020 – June 2021 monitoring period. This 10th Annual Monitoring Report is being submitted per the requirements of the Malibu Creek Trash Total Maximum Daily Load (TMDL), Los Angeles Regional Water Quality Control Board (Regional Water Board) Resolution No. 2008-007 effective July 7, 2009; and Conditional Waiver of Waste Discharge Requirements for Discharges of Trash from Nonpoint Sources in Waterbodies Subject to Total Maximum Daily Loads for Trash or Debris adopted on September 10, 2020 (Trash Conditional Waiver).

This AMR documents the 10th year of the implementation of the Malibu Creek Watershed Trash Monitoring and Reporting Plan (TMRP) including and Minimum Frequency of Assessment and Collection and Best Management Practice (MFAC/BMP) program, submitted collaboratively by the County, the District, and the City of Thousand Oaks on April 30, 2010. It provides a summary of conducted monitoring activities, summary of the monitoring results, and documentation of on-going maintenance of the full capture devices installed by the County/VCWPD towards point source compliance. The County and VCPWD continue monthly special cleanups within the TMDL area in addition to monthly MFAC/BMP assessment and collection events.

As required by the revised Malibu Creek Trash TMDL Resolution No. R4-2018-006 effective May 6, 2020; and Trash Conditional Waiver, in collaboration with the City of Thousand Oaks, the County and VCWPD prepared and submitted revised TMRP Addendum No. 1 to the Regional Water Board on August 6, 2020. The proposed changes included a transition to a visual trash assessment method. The revised TMRP was approved by the Regional Water Board on June 3, 2021, and its implementation began in July 2021. The data for this Annual Monitoring Report (July 1, 2020 through June 30, 2021) was collected under the previous TMRP monitoring protocols in effect till June 31,



2021, but starting in July 2021, MFAC/BMP program is implemented following approved TMRP Addendum No. 1 including visual trash assessment.

If you have any comments or question regarding the attached document, please contact me via email (Ewelina.Mutkowska@ventura.org) or by phone at (805) 645-1382.

Sincerely,

Ewelina Mutkowska
Senior Stormwater Manager

CC: Jun Zhu, Los Angeles Regional Water Quality Control Board
Alexander Prescott, Los Angeles Regional Water Quality Control Board
Jeff Pratt, Ventura County Public Works Agency
David Fleisch, Ventura County Public Works Agency
Glenn Shephard, Ventura County Watershed Protection District
Arne Anselm, Ventura County Watershed Protection District





Watershed
Protection

DECEMBER 15, 2021

Upper Malibu Creek Watershed Trash TMDL 2021 Annual Monitoring Report



submitted to

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD,
LOS ANGELES REGION

submitted by

COUNTY OF VENTURA AND
VENTURA COUNTY WATERSHED PROTECTION DISTRICT

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1 Introduction

The purpose of this report is to present the results of the tenth year (July 1, 2020 through June 30, 2021) trash monitoring and Minimum Frequency Assessment and Collection/Best Management Practice (MFAC/BMP) efforts conducted by the County of Ventura (County) and Ventura County Watershed Protection District (VCWPD) within their jurisdictional areas in upper Malibu Creek Watershed. The program is designed to comply with the requirements of:

- The Amendments to the Water Quality Control Plan – Los Angeles Region for the Malibu Creek Watershed Trash TMDL (Trash TMDL), Resolution No. R4-2008-007 (effective July 7, 2009), and recently revised under Resolution No. R4-2018-006 (effective May 6, 2020, and
- the Conditional Waiver of Waste Discharge Requirements for Discharges of Trash from Nonpoint Sources in Waterbodies Subject to Total Maximum Daily Loads for Trash or Debris (Trash Conditional Waiver) Order No. R4-2020-0012 adopted by the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) on September 10, 2020.

In collaboration with the City of Thousand Oaks, the County and VCWPD developed a Trash Monitoring and Reporting Plan (TMRP) in accordance with the requirements of 2009 Trash TMDL Resolution No. R4-2008-007 and submitted to the Los Angeles Water Board on April 30, 2010. The 2010 TMRP has been implemented since July 2011.

In 2015, the State Water Resources Control Board established statewide Trash Amendments to the Water Quality Control Plans for the Ocean Waters of California and Inland Surface Waters, Enclosed Bays, and Estuaries of California (Trash Amendments) in areas not subject to Trash TMDLs. The Trash Amendments specified that Municipal Separate Storm Sewer System (MS4) permittees may install full capture devices in all storm drains that capture runoff from the priority land uses in their jurisdictions, to comply with point source WLAs. Before the TMDL was revised, MS4 permittees that chose to comply with the Trash TMDL WLAs via installation of full capture devices were required to install them in all conveyances discharging to the Malibu Creek Watershed. The Trash TMDL was ultimately revised to align with the Trash Amendments and was adopted in June 2018. The revised Trash TMDL Resolution No. R4-2018-006 became effective on May 6, 2020.

On September 10, 2020, the Los Angeles Water Board also adopted the Trash Conditional Waiver. This Conditional Waiver required submittal of annual TMRP reports by December 15, therefore in order to meet reporting requirements of both the Trash TMDL and Conditional Waiver, this Annual Report is submitted on December 15, 2021.

As required by the revised Malibu Creek Trash TMDL Resolution No. R4-2018-006 effective May 6, 2020; and Trash Conditional Waiver, in collaboration with the City of Thousand Oaks, the County and VCWPD prepared and submitted revised TMRP Addendum No. 1 to the Regional Water Board on August 6, 2020. The proposed changes included a transition to a visual trash assessment method. The revised TMRP was approved by the Regional Water Board on June 3, 2021, and its implementation began in July 2021. The data for this Annual Monitoring Report (July 1, 2020 through June 30, 2021) was collected under the previous TMRP monitoring protocols

in effect till June 31, 2021, but starting in July 2021, MFAC/BMP program is implemented following approved TMRP Addendum No. 1 including visual trash assessment.

The Trash TMDL requires both point source and non-point source compliance measures. The County/VCWPD are complying with the point source requirements of the Trash TMDL through the installation of full capture systems in all storm drains that capture runoff from priority land uses. The County/VCWPD are complying with the non-point source requirements of the Trash TMDL through the implementation of a Minimum Frequency of Assessment and Collection Program (MFAC Program) to address trash from non-priority land use areas.

The Trash TMDL assigns the point source waste load allocations (WLAs) and non-point source load allocations (LAs) as well as a numeric target of “zero trash in the above listed waterbodies of the Malibu Creek Watershed.” per Resolution No. R4-2018-006. For point sources, zero is defined “as zero trash discharged from MS4s into the waterbodies of the Malibu Creek Watershed.” For non-point sources, Las are zero trash, defined as “no trash immediately following each assessment and collection event consistent with an established MFAC Program.” The MFAC Program is established “at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections.” The MFAC Program and TMRP were developed to meet the requirements of the Trash TMDL and to assess compliance with the point source WLAs and non-point source LAs. The County and VCWPD were assigned both WLAs and Las in their respective jurisdictional areas of the upper Malibu Creek Watershed.

This TMRP Annual Report includes:

- A description of the MFAC Site and a summary of the monitoring events conducted during the 2020-2021 reporting year;
- A discussion of the data collected during the 2020-2021 reporting year;
- A compliance discussion for point and non-point sources;
- A summary of implemented trash BMPs; and
- Recommended changes to the MFAC Program³ and TMRP.

2 MFAC Site and Monitoring Events

The following subsections provide information for the MFAC Site and for the completed monitoring events during the 2020-2021 reporting year.

2.1 MFAC SITE LOCATION

The Medea Creek MFAC site (MC1) location was selected at the lowest point of flow from the subwatershed in Ventura County where creek morphology is conducive to accumulate trash deposits. This provides a measure of the level of trash movement in the subwatershed. This location was also judged to be accessible and safe for entry. The area within the County unincorporated community of Oak Park with drainage to Reach 2 of Medea Creek is 3.3 square miles. A breakdown of land uses for this area is: 62.9 percent open space, 30.1 percent residential, and 6.93 percent commercial and community facilities. The population in Oak Park is about 13,800. Medea Creek follows a single flow path as it moves through the assessment area. When flow levels rise due to a storm event, the stream configuration causes bank overflow and deposition of transported trash and debris onto an existing flood plain. The Medea Creek assessment site is shown in **Figure 1**.

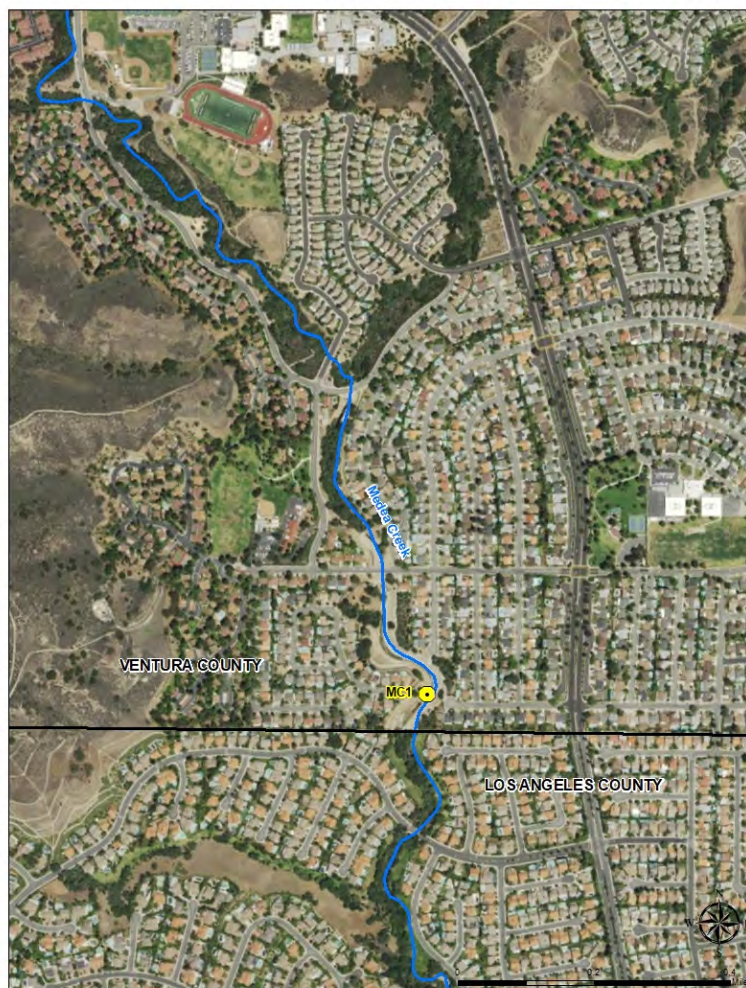


Figure 1. Medea Creek MFAC Site (MC1) Location

2.2 SUMMARY OF MONITORING EVENTS

Under a Memorandum of Agreement with City of Thousand Oaks, the County/VCWPD has hired the CCC to monitor the Medea Creek site and the City staff is in charge of field work oversight and management of monitoring records until in June 2021, when Ventura Land Trust (VLT) was hired to take over the field work oversight and management of monitoring records and data.

Trash monitoring is conducted once per month, with an additional cleanup event that is utilized as a BMP measure. This frequency establishes a site visitation frequency that is equivalent to the TMDL MFAC requirements of twice per month, as each site is being visited and cleaned twice per month.

The CCC conducted all MFAC Events for the 2020-2021 monitoring year, with the exception of July and December 2020, due to a COVID-19 outbreak which required lockdown at their local facility. A Los Angeles Water Board notification emails were sent by the County/VCWPD to alert staff of the situation, refer to Appendix 4. All other monitoring events were completed as indicated in **Table 1** and **Table 2**.

The CCC utilized an equivalent method/variation of the Rapid Trash Assessment Protocol (RTAP), developed by the San Francisco Bay Water Board. The CCC began each MFAC event at the lower site boundary and moved upstream making sure to differentiate between items found above and below the high-water line. The CCC collected all identified trash, while simultaneously categorizing and tabulating trash items on the field log (Appendix 1). After the collection was completed, the sum of each item found above and below the high-water line was written next to the item's respective category. The trash collected was then weighed and the volume measured.

Table 1. MFAC Event Completion Summary (Compliance Monitoring)

Monitoring Date	Medea Creek Reach 2, MC1 Site ¹
7/1/2020	N/A ²
8/27/2020	X
9/22/2020	X
10/27/2020	X
11/25/2020	X
12/22/2020	N/A ²
1/26/2021	X
2/24/2021	X
3/30/2021	X
4/29/2021	X
5/26/2021	X
6/29/2021	X

1. "X" indicates a completed MFAC Event

2. "N/A" no MFAC Events conducted in July 2020 and December 2020 due to the COVID-19 pandemic. Copies of notification emails to Los Angeles Water Board are provided in Appendix 4.

Table 2. MFAC Event Completion Summary (BMP Cleanup)

Monitoring Date	Medea Creek Reach 2, MC1 Site¹
7/2020	N/A ²
8/25/2020	X
9/15/2020	X
10/14/2020	X
11/18/2020	X
12/2020	N/A ²
1/12/2021	X
2/4/2021	X
3/17/2021	X
4/22/2021	X
5/18/2021	X
6/15/2021	X

1. "X" indicates a completed MFAC Event

2. "N/A" no Special Cleanup Events conducted in July 2020 and December 2020 due to the COVID-19 pandemic. Copies of notification emails to Los Angeles Water Board are provided in Appendix 4.

3 Data Collection Discussion

The location of trash (i.e., above or below the high-water line) at the site is likely associated with the method of deposition of the debris and can assist the County/VCWPD with sourcing the debris. Items found above the high-water line may have been deposited by wind transport, littering from adjacent land uses, and illegal dumping. Items found below the high-water line may have been deposited by downstream accumulation. During the monitoring year, the types of trash found were consistently urban and recreational.

The trash data collected during the 2020-2021 reporting year were highly variable in that during some months, the weight and pieces were higher above the high-water line than below and in some months, this trend was reversed. As for the volume, the values obtained also varied and were found to be either higher below the high-water line than above, or the same. In addition, it is difficult to correlate the volume-to-weight-to-pieces data as they often do not align. That is, one month there might be a high volume of trash, but a low weight of trash and a low number of pieces. Again, this trend might be reversed another month. Overall, the highest volume of trash and number of pieces occurred in January 2021 while the highest weight in September 2020 and March 2021. Generally, the highest weight occurred in fall and spring, the highest pieces of trash occurred in fall and winter, and the highest volume during winter. **Table 3** summarizes the volume, weight and pieces of trash found above and below the high-water line as well as the total amount of trash collected at MC1 site, by month. **Figure 2**, **Figure 3**, and **Figure 4** show the volume of trash collected, the weight of trash collected, and the pieces of trash collected, respectively.

The MFAC trash data showed an 82 percent reduction in the volume of trash compared to the baseline WLA, 80 percent reduction in the weight of trash compared to the baseline WLA and 88 percent reduction in trash from the pieces baseline WLA. Additionally, immediately following each MFAC Event, the MFAC/BMP Program resulted in zero trash as required by the Trash TMDL. Furthermore, the average monthly volume of trash, weight of trash, and the amount of trash were 0.13 cubic feet, 0.33 pounds, and 12 pieces, respectively. This indicates that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC Program is effective for meeting the Trash TMDL's non-point source requirements.

Table 3. Trash Data Collected Above and Below the High-Water Line and Total Trash Collected at MC1 (monitoring)

Date	Above High-Water Line			Below High-Water Line			Total Trash Collected		
	Volume (CF)	Weight (lbs.)	Total Pieces of Trash	Volume (CF)	Weight (lbs.)	Total Pieces of Trash	Volume (CF)	Weight (lbs.)	Total Pieces of Trash
7/1/2020 ¹	-	-	-	-	-	-	-	-	-
8/27/2020	0	0	0	0.05	0.22	2	0.05	0.22	2
9/22/2020	0.05	0.06	1	0.05	0.61	2	0.1	0.67	3
10/27/2020	0.05	0.08	19	0.05	0 ²	7	0.1	0.08	26
11/25/2020	0	0	0	0.05	0.05	0 ³	0.05	0.05	0 ⁴
12/22/2020 ¹	-	-	-	-	-	-	-	-	-
1/26/2021	0.05	0.1	5	0.3	0.39	22	0.35	0.49	27
2/24/2021	0.05	0.37	18	0.05	0.15	3	0.1	0.52	21
3/30/2021	0.05	0.25	5	0.15	0.56	2	0.2	0.81	7
4/29/2021	0.05	0.01	3	0.05	0.02	4	0.1	0.03	7
5/26/2021	0.05	0.18	9	0.05	0.13	3	0.1	0.31	12
6/29/2021	0.05	0.06	6	0.1	0.09	5	0.15	0.12	11
Totals	0.4	1.11	66	0.9	2.22	50	1.3	3.33	116

¹ No Monitoring Event conducted in July 2020 and December 2020 due to the COVID-19 pandemic. Copies of notification emails to Los Angeles Water Board are provided in Appendix 4.

² Negligible weight for trash collected Below High-Water Line during the October 27, 2020 event.

³ A field log discrepancy was found and minor variations between trash collection metrics were recorded during the November 25, 2020 event.

⁴ A field log discrepancy was found and minor variations between trash collection metrics were recorded during the November 25, 2020 event.

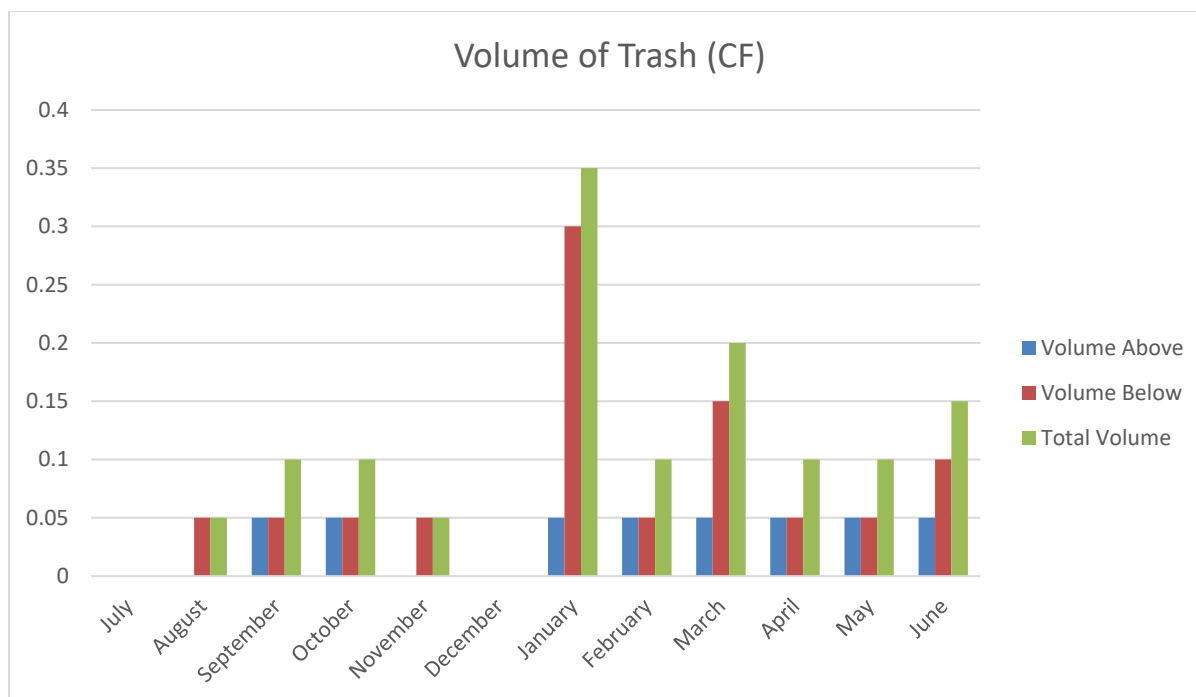


Figure 2. Volume of Trash Collected at MC1

* July 2020 and December 2020 field work events were not completed due to COVID-19 outbreak, per notifications to Los Angeles Water Board in Appendix 4

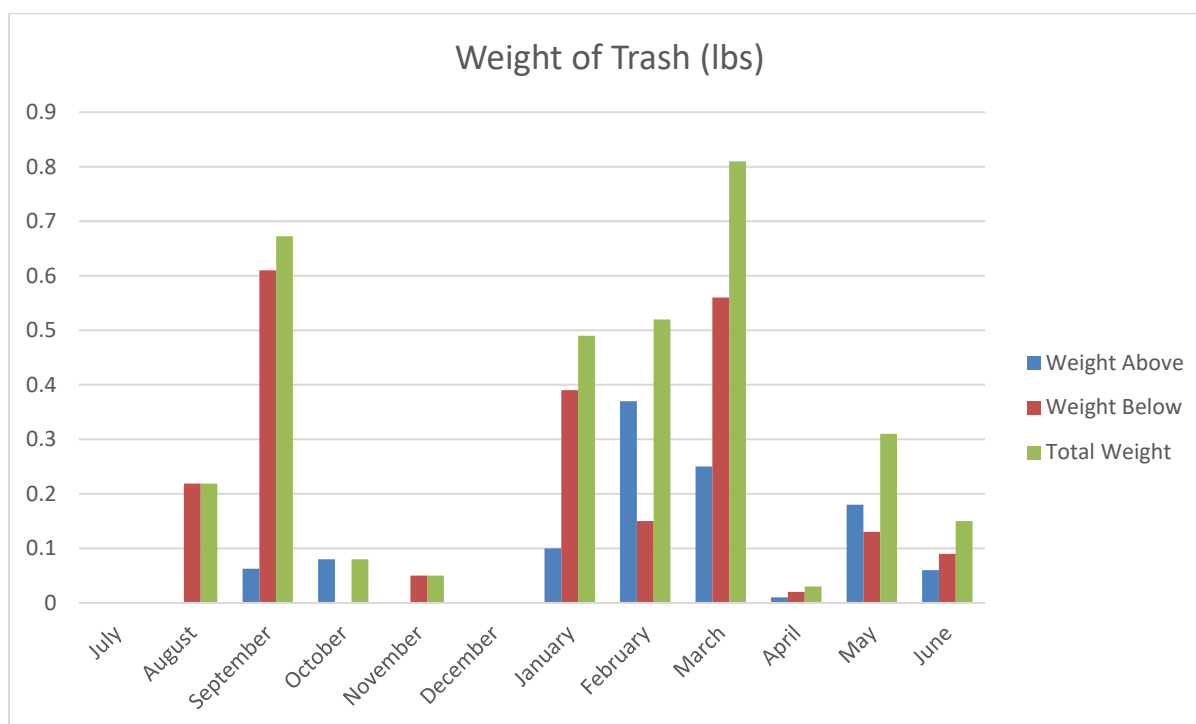


Figure 3. Weight of Trash Collected at MC1²

* July 2020 and December 2020 field work events were not completed due to COVID-19 outbreak, per notifications to Los Angeles Water Board in Appendix 4

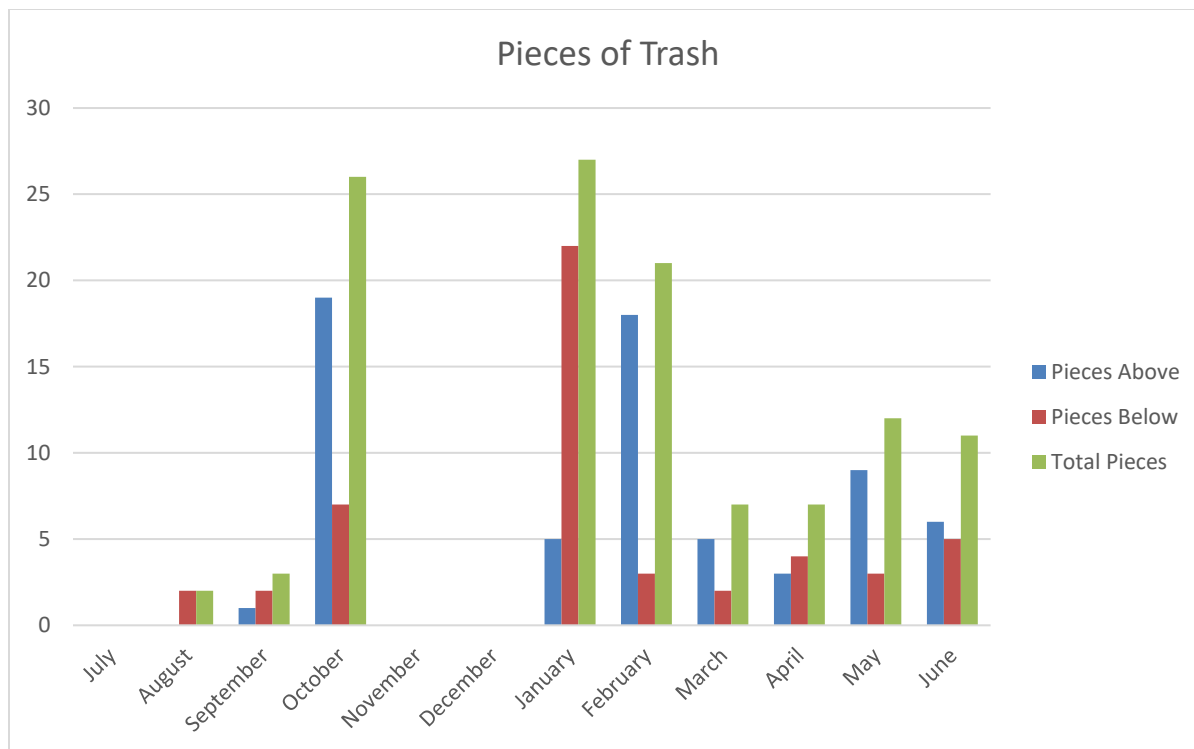


Figure 4. Pieces of Trash Collected at MC1

* July 2020 and December 2020 field work events were not completed due to COVID-19 outbreak, per notifications to Los Angeles Water Board in Appendix 4

4 TMDL Compliance Discussion

4.1 POINT SOURCE COMPLIANCE

The Trash TMDL requires point source dischargers to achieve a stepwise reduction in trash from the baseline WLA in 20 percent increments or install full capture systems in the corresponding percentages of conveyances from priority land uses discharging to the Malibu Creek Watershed.

To comply with the point source requirements of the Trash TMDL, the County/VCWPD installed full capture devices to address all drainage areas that receive runoff from priority land uses as defined by the Amendment to the Water Quality Control Plan for Ocean Waters of California (Ocean Plan) and the Proposed Final Part 1 Trash Provisions of the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California (ISWEBE Plan) (together, “Statewide Trash Provisions”). In addition, County/VCWPD continues addressing all non-priority land uses through a MFAC Program. The County/VCWPD utilize data collected under the TMRP to evaluate their MFAC Program and make modifications as necessary.

During the first year of monitoring, July 1, 2011 through June 30, 2012, trash volume, weight, and pieces data collected at the Medea Creek (MC1) monitoring location served as the baseline WLAs (Table 4). The baseline WLAs provide one mechanism for evaluating the MFAC program.

Table 4. 2011-2012 Baseline WLAs for the Medea Creek Reach 2 (MC1) Sampling Site

Medea Creek Reach 2 (MC1) Sampling Site Baseline WLAs		
Volume (CF)	Weight (lbs.)	Pieces
7.2	16.3	970

As shown in Table 5, the trash data collected during the 2020-2021 reporting year through the MFAC Program at MC1 showed an 82 percent reduction in the volume of trash compared to the baseline WLA, 80 percent reduction in the weight of trash compared to the baseline WLA, and 88 percent reduction in trash from the pieces baseline WLA. As of May 6, 2020, the Trash TMDL only requires the County/VCWPD to either install full capture systems in all drainages containing priority land uses or demonstrate a reduction from the baseline WLAs. As a result, the County/VCWPD no longer have to demonstrate incremental reductions in trash levels from non-priority land uses as all priority land uses have been addressed by full capture devices. However, this information remains included in this Annual Report as a valuable assessment of the effectiveness of the MFAC Program.

Table 5. 2020-2021 Percent Reductions from Baseline WLAs

Metric	Volume (CF)	Weight (lbs.)	Pieces
Baseline WLA	7.2	16.3	970
30 percent Reduction from Baseline WLA Values	5.04	11.41	679
2020-2021 Trash Data	1.3	3.33	116
Percent Reduction from Baseline WLA	82 percent	80 percent	88 percent

4.2 NON-POINT SOURCE COMPLIANCE

For non-point sources, the numeric target of zero trash is defined as “no trash immediately following each assessment and collection event with an established MFAC Program, where the MFAC Program is “established at an interval that prevents trash from accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections.”

Immediately following each 2020-2021 MFAC Event, the MFAC Program resulted in zero trash as required by the Trash TMDL for non-point sources. Furthermore, the average monthly volume, weight, and amount of trash were 0.13 cubic feet, 0.33 pounds, and 12 pieces, respectively. Combined with the significant reductions in trash from the baseline WLAs, the data indicate that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC Program is effective for meeting the Trash TMDL’s non-point source requirements.

5 Trash BMPs Implemented

The County/VCWPD Litter Management Program includes the following:

- The County conducted maintenance of the full capture devices installed in 100% of County conveyances in priority land use areas. Per the Maintenance and Operations Plan, maintenance is done at least three times a year. During the 2020-2021 monitoring year, the County removed more than 29 cubic feet of trash from full capture devices within the Malibu Creek watershed.
- Catch basin cleaning - Catch basins, including full capture devices, are inspected at least once a year and cleaned when filled to 25 percent or more of the catch basin's capacity as required by the Ventura MS4 Permit. County has been cleaning all inspected catch basins regardless of what percent of catch basin capacity is filled up with vegetation debris and occasional trash. During storm season, all drainage facilities are inspected and cleaned as necessary. More than 29 cubic feet of trash, mostly found in catch basins retrofitted with full capture devices, was removed from catch basins in the Malibu Creek watershed. Example photos from a full capture device inspection and cleaning events are presented in **Appendix 3**.
- All County's catch basins are labeled with "No Dumping" stencil or label; catch basin stencils and labels are inspected annually to verify legibility; in an event if stencil or label is illegible, the catch basin is re-stenciled or re-labeled within 15 days of inspection per 2010 Ventura Municipal Stormwater Permit.
- The County developed an ArcGIS Survey123 app to track catch basin inspections and cleanings. Survey123 allows field staff to collect data via a mobile device and enables staff to efficiently analyze the catch basin inspection results.
- Open channel storm drain maintenance - All channels owned and maintained by VCWPD are cleared, inspected, and cleaned as required, at least once per year.
- In July 2018, County/VCWPD initiated additional monthly cleanups events in addition to monthly trash assessment events. This effort has been continued this monitoring period and will be continued in the future per approved revised TMRP.
- Ventura County's catch basins are labeled, "Don't Pollute, Flows to Waterways."
- Trash Management at Public Events - A trash and litter management plan is required when obtaining a permit for staging public events. This plan requires adequate facilities for trash collection and disposal.
- Public areas - Trash receptacles have been placed within high trash generation areas. These devices are cleaned and maintained regularly to prevent trash overflow.
- The amended Ventura County Stormwater Quality Management Ordinance for Unincorporated Areas (Ventura County Ordinance No. 4450) has been in effect since August 2012. It includes litter and trash specific prohibitions (§ 6942 and § 6954) on the

discharge or deposition of trash that may enter the County storm drain system or receiving waters. The revised ordinance also includes increased civil penalties for violations and provisions for issuing administrative fines, recovery of costs, and misdemeanor violations.

- The County and VCWPD participate in the Ventura Countywide Stormwater Quality Management Program to that provides outreach and education facilitated by contracted services from “Sagent”, a professional advertisement group that designs and conducts countywide, bilingual outreach programs advocating proper trash disposal. Outreach includes social media messages about litter prevention and the protection of stormwater quality.
- The County and VCWPD participated in 36th Annual California Coastal Cleanup Day in September 2020. Due to COVID-19 pandemic, the event was entirely self-guided, with no central organization of group cleanup sites. The California Coastal Commission, which leads cleanup efforts in California, urged volunteers to mobilize from 9 a.m. to noon each Saturday in September 2020. Ventura County had 1,046 registered participants. This was far more than comparable counties and almost as many volunteers as Los Angeles, refer to **Appendix 2**.
- Various Stormwater Pollution Prevention Educational Outreach - related social media posts by the Ventura County Community for Clean Watersheds, refer to **Appendix 2**.
- The County Stormwater Program participated in 2021 Virtual Science Carnival event organized by the Cal State University Channel Islands in spring 2020. The event statistics included: Total – 5,191 participants including Students – 3,924, Educators – 1,219, Other – 48. <https://sciencecarnival2021.com/>
- The County Stormwater Program participated in 2021 Virtual Ventura County Public Agency’s Annual Public Works Week event the week of May 16-22, 2021. Staff created a video about Piru Stormwater Capture for Groundwater Recharge project. <https://www.vcpbublicworks.org/npww/>
- The County and VCWPD promotes stormwater quality and prevention of stormwater pollution at the following websites:
 - <http://uninc.vcstormwater.org>,
 - <http://vcstormwater.org>,
 - <https://www.vcpbublicworks.org/wp/waterresourcesdivision/countystormwaterprogram>,
 - and
 - <https://www.onestoppermits.vcrma.org/departments/stormwater-program>
- The County conducts commercial, industrial, and construction facility/site inspections to ensure pollution prevention BMPs are adequate and maintained and to educate employees about the importance of pollution prevention. Public information on how to comply with SB205 is available at <https://www.ventura.org/ttc/bl/>

6 Recommended MFAC Program and TMRP Changes

On June 14, 2018, the Los Angeles Water Board adopted proposed revisions to the original Trash TMDL that align the current Trash TMDL with the Statewide Trash Provisions. As required by the Trash TMDL and Trash Conditional Waiver, on August 6, 2020, the County/VCWPD submitted a revised TMRP to the Los Angeles Water Board proposing revisions to the approved TMRP in response to the Trash TMDL. The proposed changes include a transition to a visual trash assessment method and revision of monitoring frequency. This revised TMRP was approved by the Los Angeles Water Board on June 3, 2021, and its implementation began in July 2021. The data for the 2021-2022 Annual Monitoring Report will be collected under the revised TMRP and will reflect such revisions.

The County/VCWPD will implement the MFAC event frequency and transition to visual assessment method outlined in the approved August 2020 TMRP. The proposed monitoring frequency, combined with the MFAC program, is anticipated to be sufficient to collect trash generated during critical condition events. As discussed in the annual reports, targeted critical condition monitoring was conducted during the first year of the monitoring program and discontinued based on the results of that assessment. In subsequent years, an assessment of critical conditions was conducted in the annual reports based on a comparison of the trash levels observed during monitoring events that occurred after the critical condition event. Based on those assessments, the reports identified that rain prior to a monitoring event may increase the amount of trash present during the monitoring event. However, similar elevated levels of trash are present regardless of the amount of time between the rain event and the cleanup event, indicating that the regular cleanup and assessment events can be utilized to address trash generated from critical condition events. Wind events do not appear to have as much of an impact on the trash monitoring results. The monitoring results will continue to be used to evaluate the accumulation of trash between visual monitoring events and to determine if any modifications to the clean-up event frequency is needed to address critical conditions.

In addition, County/VCWPD will continue conducting additional monthly cleanup events in addition to the on-going implementation of the BMP Program, as initiated in July 2018.

7 Conclusion

During the 2020-2021 reporting year, the County/VCWPD conducted monthly MFAC Events at the MC1 site in Medea Creek Reach 2 including collection of trash volume, weight, and number of pieces data during each MFAC Event. The trash data collected were highly variable and it is difficult to correlate the volume-to-weight-to-pieces data as they often do not align. Overall, the highest volume of trash and number of pieces occurred in January 2021 while the highest weight in September 2020 and March 2021. Generally, the highest weight occurred in fall and spring, the highest pieces of trash occurred in fall and winter, and the highest volume during winter.

The County/VCWPD are complying with the point source requirements of the Trash TMDL through the installation of full capture systems in all conveyances collecting drainage from priority land use areas. The County/VCWPD are complying with the non-point source requirements of the Trash TMDL through the implementation of a MFAC Program to address trash from non-priority land use areas. The MFAC trash data showed an 82 percent reduction in the volume of trash compared to the baseline WLA, 80 percent reduction in the weight of trash compared to the baseline WLA and 88 percent reduction in trash from the pieces baseline WLA. As of the effective date of the Trash TMDL, May 6, 2020, County/VCWPD no longer needs to demonstrate incremental percentage reductions of trash; however, this information has been provided for comparison with the baseline data and as an effectiveness assessment tool.

Additionally, immediately following each MFAC Event, the MFAC/BMP Program resulted in zero trash as required by the Trash TMDL. Furthermore, the average monthly volume of trash, weight of trash, and the amount of trash were 0.13 cubic feet, 0.35 pounds, and 12 pieces, respectively. This indicates that trash is not accumulating in deleterious amounts that cause nuisance or adversely affect beneficial uses between collections. Therefore, the MFAC/BMP Program is effective for meeting the Trash TMDL's non-point source requirements.

As required by the Trash TMDL and Trash Conditional Waiver, on August 6, 2020, the County/VCWPD submitted a revised TMRP to the Los Angeles Water Board proposing revisions to the upper Malibu Creek TMRP. The proposed changes include a transition to a visual trash assessment method and revision of monitoring frequency. The revised TMRP was approved by the Los Angeles Water Board in June 2021, and its implementation began in July 2021. The data for the eleventh year (2021-2022) Annual Monitoring Report will be collected under the revised TMRP and will reflect such revisions.

Appendix 1
07/2020 – 06/2021 Field Logs and Photos

available at

https://countyofventuracamy.sharepoint.com/:f:/r/personal/ewelina_mutkowska_ventura_org/Documents/2021-12_MCW%20Trash%20TMDL%20AR?csf=1&web=1&e=OSAySE

Appendix 2

07/2020 – 06/2021 Public Educational Outreach

County of Ventura/ Ventura County Watershed Protection District

- The County and VCWPD participated, supported, and contributed funding towards 2020 Coastal Cleanup Day
- In March 2021, Ewelina Mutkowska with the County Stormwater Program, gave a virtual presentation about stormwater pollution prevention at the Disadvantaged Community Outreach event in El Rio.
- In September 2020, Ewelina Mutkowska with the County Stormwater Program, gave a presentation titled "Ventura County Stormwater Quality Update" to APWA-Ventura County Chapter, about 50 participants attended the meeting.
- In March 2021, Ewelina Mutkowska with the County Stormwater Program, gave a presentation about the Piru Stormwater Capture for Groundwater Recharge Project to APWA-Ventura Chapter - 52 participants attended the presentation.
- County Stormwater Program participated in 2021 Virtual Science Carnival event organized by the Cal State University Channel Islands in Spring 2020. The event statistics included: Total – 5,191 participants including Students – 3,924, Educators – 1,219, Other – 48. <https://sciencecarnival2021.com/>
- The County Stormwater Program participated in 2021 Virtual Ventura County Public Agency's Annual Public Works Week event the week of May 16-22, 2021. Staff created a video about Piru Stormwater Capture for Groundwater Recharge project. <https://www.vcpublicworks.org/npww/> The event website recorded 1,139 visits.



The County Stormwater Program with help from the 1st grade "intern" prepared bilingual, in English and Spanish, presentation about pervious concrete and stormwater pollution prevention. The movie was featured during the 2021 Science Carnival organized by University of Southern California – Channel Island available at <https://sciencecarnival2021.com/>



2020-2021 Collaboration Between Oak Park Unified School District and Ventura County Public Works – Watershed Protection for Stormwater Pollution Prevention Public Outreach

CALIFORNIA COASTAL CLEANUP MONTH

We're staying close to home these days, but we're all connected, from the mountains to the ocean. Every Saturday in September, grab your family or housemates to clean up your street, park, local shoreline or anywhere that makes up your happy place.

For more information & guidance visit:
WWW.VCCOASTCLEANUP.ORG/GET-INVOLVED/

Download and use the Clean Swell data collection app to record and report your cleanup.

Ventura County Annual Coastal Cleanup Day
 @vccoastcleanupday

LAST YEAR OVER 74,000 CALIFORNIANS CLEARED MORE THAN 80,000 POUNDS OF TRASH AND RECYCLABLES FROM OUR STATE'S BEACHES AND WATERWAYS - ALL IN A MATTER OF HOURS.

CALIFORNIA COASTAL CLEANUP 2020

PHOTO BY TOSCO TEECEL

We're staying close to home these days, but we're all connected from the mountains to the ocean. This year, California Coastal Cleanup Day will become Coastal Cleanup Month. Every Saturday in September, grab your family and housemates to clean up your street, park, local shoreline, or anywhere else that makes up your happy place.

Remember, beach cleanups start at our own front doors. Trash can travel through storm drains, creeks, and rivers to become beach and ocean pollution.

Download and use the Clean Swell data collection app to record and report your cleanup.

For more information & guidance visit:
WWW.VCCOASTCLEANUP.ORG/GET-INVOLVED/

Before heading out check Ventura County Health and Safety Guidelines:
WWW.VENTURACOUNTYRECOVERS.ORG

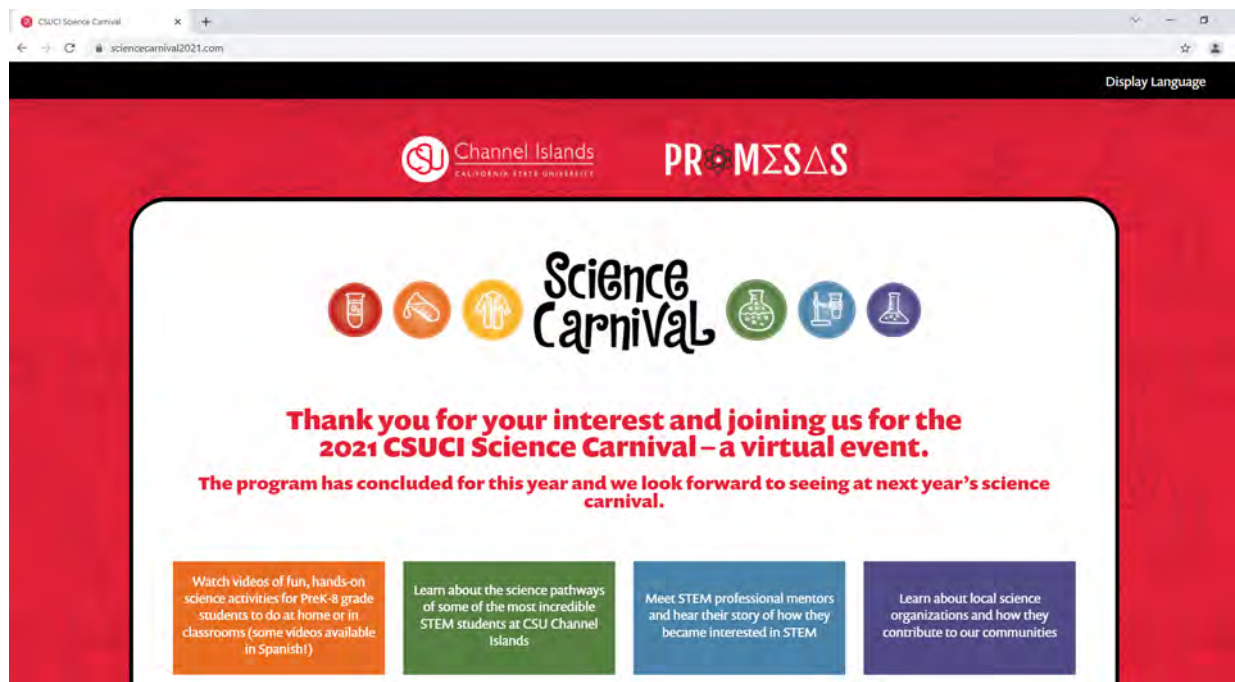
Ventura County Annual Coastal Cleanup Day
 @vccoastcleanupday

Thank you to our sponsors!

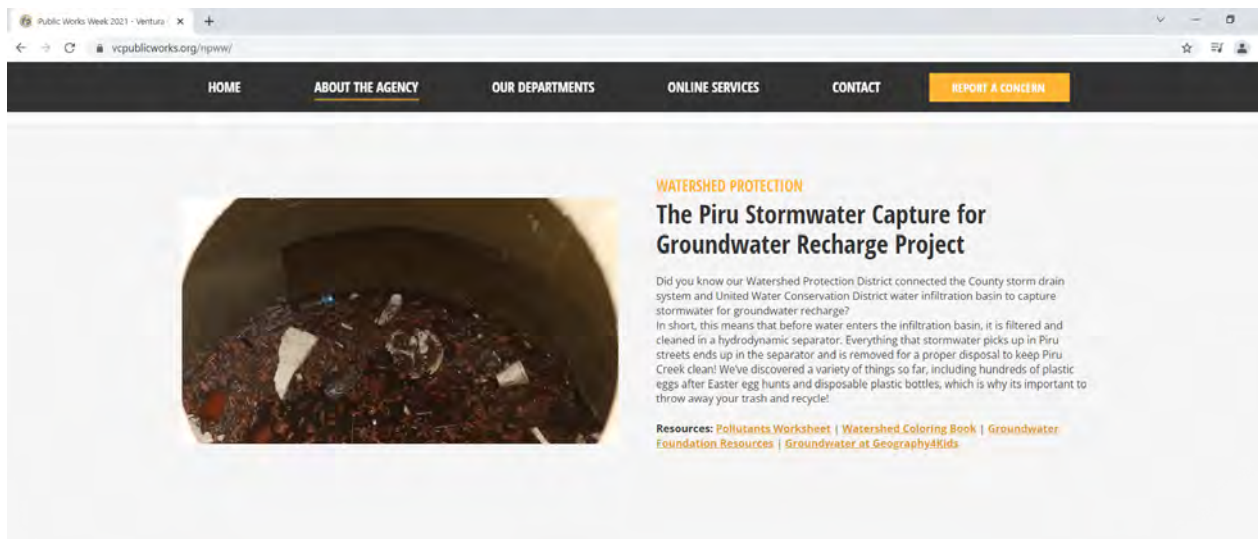
2020 Coastal Cleanup Day Posters



2020 Coastal Cleanup Day Photos



Virtual CSU Channel Islands Science Carnival in April 2021



During 2021 Annual Public Works Week, the County Stormwater Program and 1st grade “intern” prepared bilingual, in English and Spanish, presentation about pervious concrete. The movie is available at <https://www.vcpublishworks.org/npww/>



Ventura County Public Works Agency

42 mins · 🌐



As part of the Adopt-A-Road program, Supervisor Parks' office, VCPWA, Oak Park MAC and members of the Oak Park Unified School District collaborated to organize volunteers and recently collect 25 pounds of trash along Kanan Road. Thank you for letting VCPWA Road & Transportation and IWMD be a part of this by providing additional trash/recycling combo containers for the clean-up.

This is a shot of the awesome volunteers at Oak Hills Elementary School!

"We received so many "thank yous," horn honks, and cheers of gratitude from passers-by as we marched up Kanan Road in our bright yellow vests! It felt really great and everyone was so happy to have participated!" - Katie Mazzocco



👍 Kristina Colton and 1 other



Like



Comment



Share





Ventura County Star ✓

50 mins · 🌐



To catch people unlawfully dumping garbage, the Ventura County Public Works Agency installed motion-activated, hidden cameras along rural roads.



VCSTAR.COM

Eco-tip: Stopping illegal dumping through enforcement, prevention



84

14 Comments 9 Shares



Like



Comment



Share



Officials crack down on illegal dumping

| June 10, 2021

By David Goldstein
Special to The Acorn



DROP OFF—Cameras installed by the Ventura County Public Works Agency are keeping track of illegal dumping on roadways. Violators will be cited.

The Ventura County Public Works Agency has taken steps to bring under control the persistent scofflaws who dump garbage along area roadways.

The agency recently installed a series of motion-activated hidden cameras in strategic locations along rural roads. The cameras upload images of people dumping old mattresses, garbage bags, used furniture and other trash illegally. The public works staff uses the pictures to identify vehicle makes and license plate numbers.

The information enables the Public Works Agency to file a police report, which is investigated by the Ventura County Sheriff's Office. In most cases, citations are issued and the responsible parties are required to appear in court.

Steve Mattern, an environmental specialist with the Ventura

County district attorney's office, has assisted prosecutors in handling complaints against six people accused of illegal dumping since the cameras were installed. The complaints charged the defendants with violating the county's anti-dumping ordinance.



Courtesy photos

Although the trash dumping on public roads is usually a misdemeanor, consequences from the activity can be serious. The court holds defendants responsible for restitution to Ventura County.

In addition to paying the costs of cleanup, the defendants are subject to court costs, fines and community service for the Public Works Agency.

But despite the enforcement, illegal dumping continues.

In 2020, public works crews and their contractors collected 278 mattresses that had been illegally dumped along county roads, said Anitha Balan, Ventura County's deputy director of operations and maintenance.

Officials note that some of the dumping could be the result of a misunderstanding about where unwanted items can be left legally and where they cannot. For example, county residents can drop off mattresses for free at four mattress recycling sites.

Information is available at byebyemattress.com.

Sometimes illegal dumping is done by individuals trying to make a quick buck by using their truck to haul for others. Residents can prevent illegal dumping by hiring legal haulers only.

The company collecting residential refuse is the one that should be called for bulky item disposal as well. For tires, choose a registered waste tire hauler at the CalRecycle website at www.calrecycle.ca.gov/tires/haulers.

Mattresses, sofas and other bulky items too big to fit into curbside bins will often be collected by the refuse hauler at no extra charge.

Waste company contracts with area cities generally require the hauler to accept two to four bulky items per year from each home at no charge. In some cities, residents are allowed two separate collection days, while in most areas outside cities, contracts specify up to two items on a single visit once per year.

Community cleanup days are another way to easily discard bulky items without cost. Although the cleanup program was suspended during the pandemic, most city and county contracts with haulers require them to provide annual events where residents can drop off material for free.

In Oxnard, neighborhood groups request the service and arrange for bins on their street. In other areas, city or county staff rent a church, park or school parking lot for several hours on a Saturday and send flyers to the surrounding neighborhood, notifying residents of the opportunity. This program will resume soon.

In the meantime, waste service customers in some areas have been mailed passes for use of the Simi Valley Landfill and Recycling Center or a transfer station sending material to the landfill.

The three East County cities have long had such an arrangement with the Simi Landfill, which accepts material from residents on specified days at no charge.

Officials say if anyone sees illegal dumping, avoid confrontation but make a note of the license plate number, vehicle type and the dumper's appearance and call the sheriff's department's nonemergency number at (805) 654-9511.

David Goldstein, environmental analyst with Ventura County Public Works, can be reached by calling (805) 658-4312 or email david.goldstein@ventura.org.

<https://www.theacorn.com/articles/officials-crack-down-on-illegal-dumping/>



Officials cracking down on illegal dumping

| June 10, 2021

By David Goldstein
Special to The Acorn



THE ECOHERO SHOW



www.EcoHeroShow.com | ecoheroshow@gmail.com | 888-482-3885

Thanks To You!

We performed **391 whole school** assemblies and **532 individual classroom** presentations, all via livestream!

Perhaps more important than the environmental education this year was giving students and teachers something **FUN AND EMPOWERING** to engage with whether they were at school, at home, or a hybrid setting.



The Survey Says...

We ran three major surveys:

1. **Students** individually logged into webinars
2. **Assembly coordinators** who booked our show
3. **Teachers** who booked us for their individual class

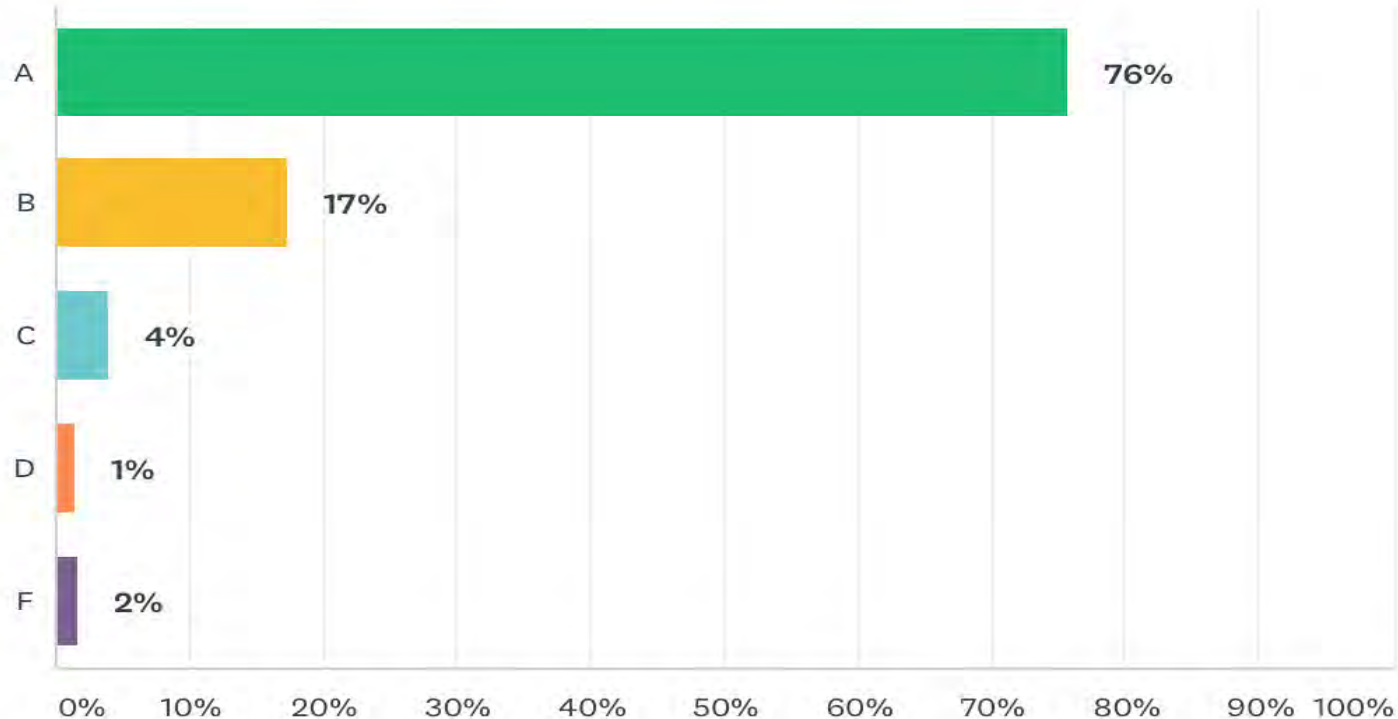
The overview results are in the following slides.



Student Results: Whole School Assemblies

Please "Grade" the overall presentation

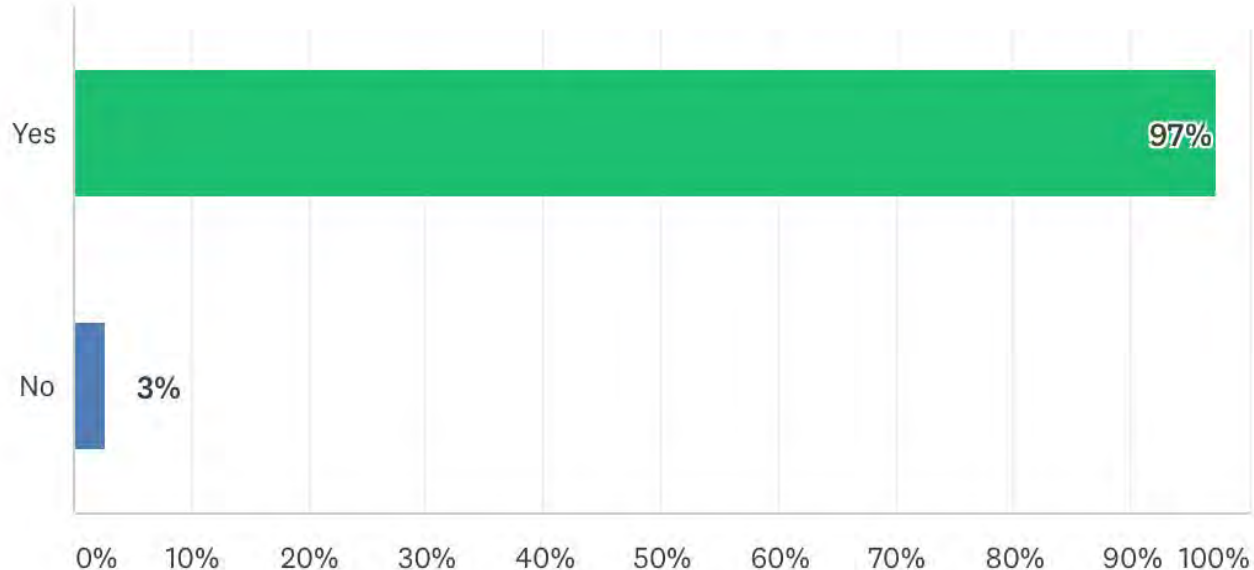
Answered: 3,536 Skipped: 167



Student Results: Whole School Assemblies

Do you think other schools should have The EcoHero Show at their school?

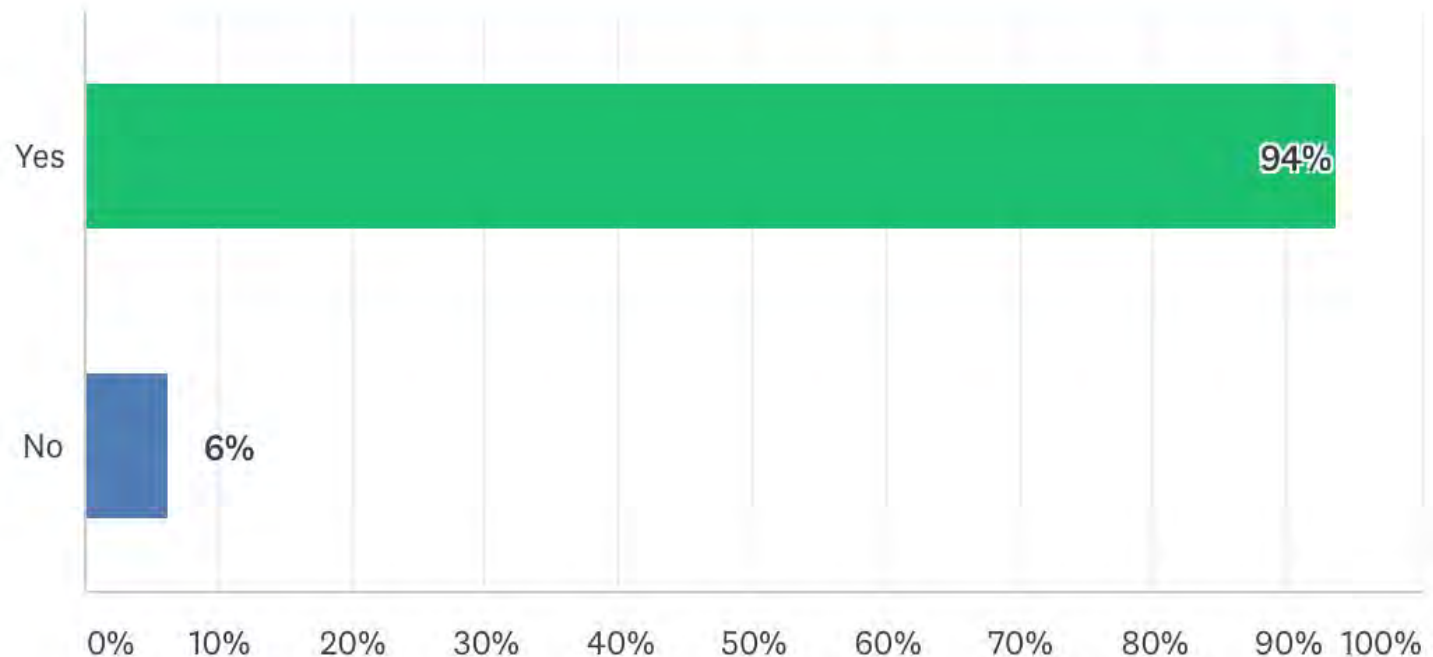
Answered: 3,576 Skipped: 127



Student Results: Whole School Assemblies

Did you learn something new today?

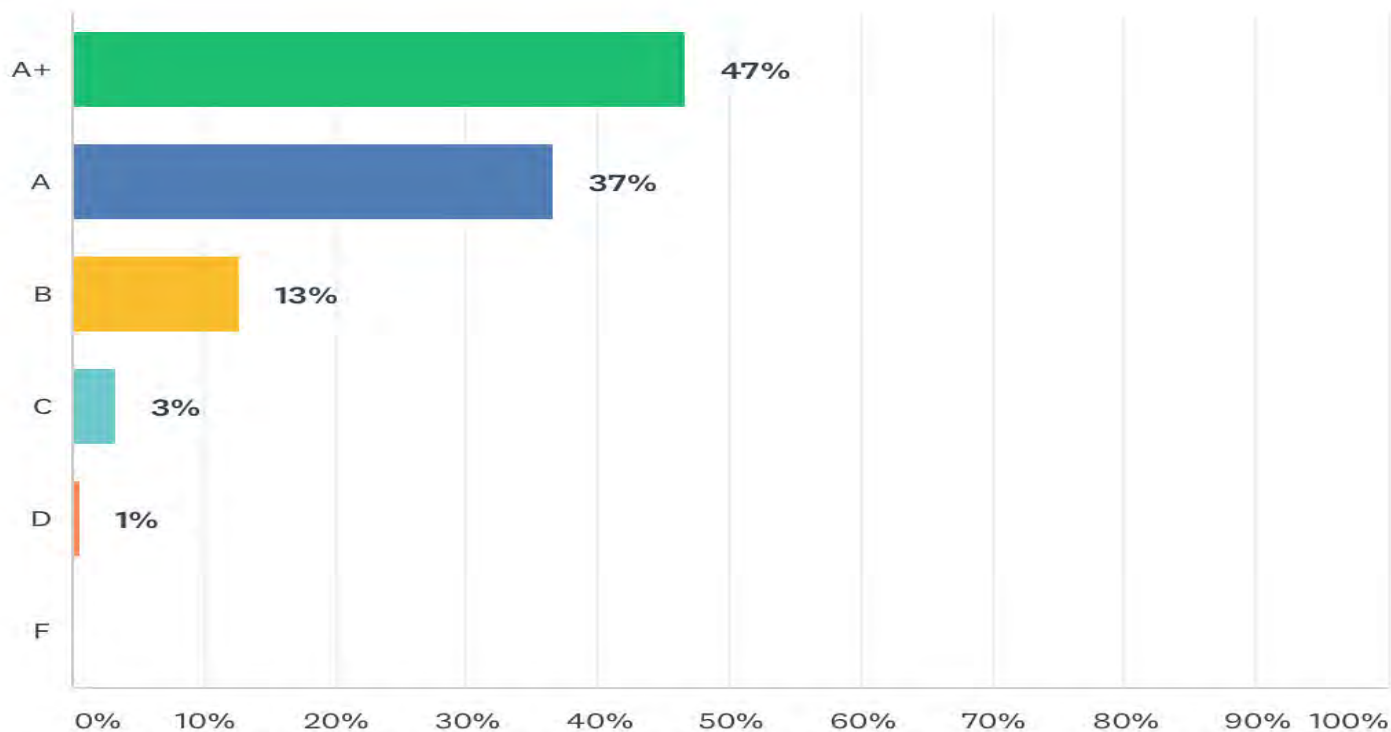
Answered: 3,589 Skipped: 114



Coordinator Results: Whole School Assemblies

Please "Grade" the overall presentation

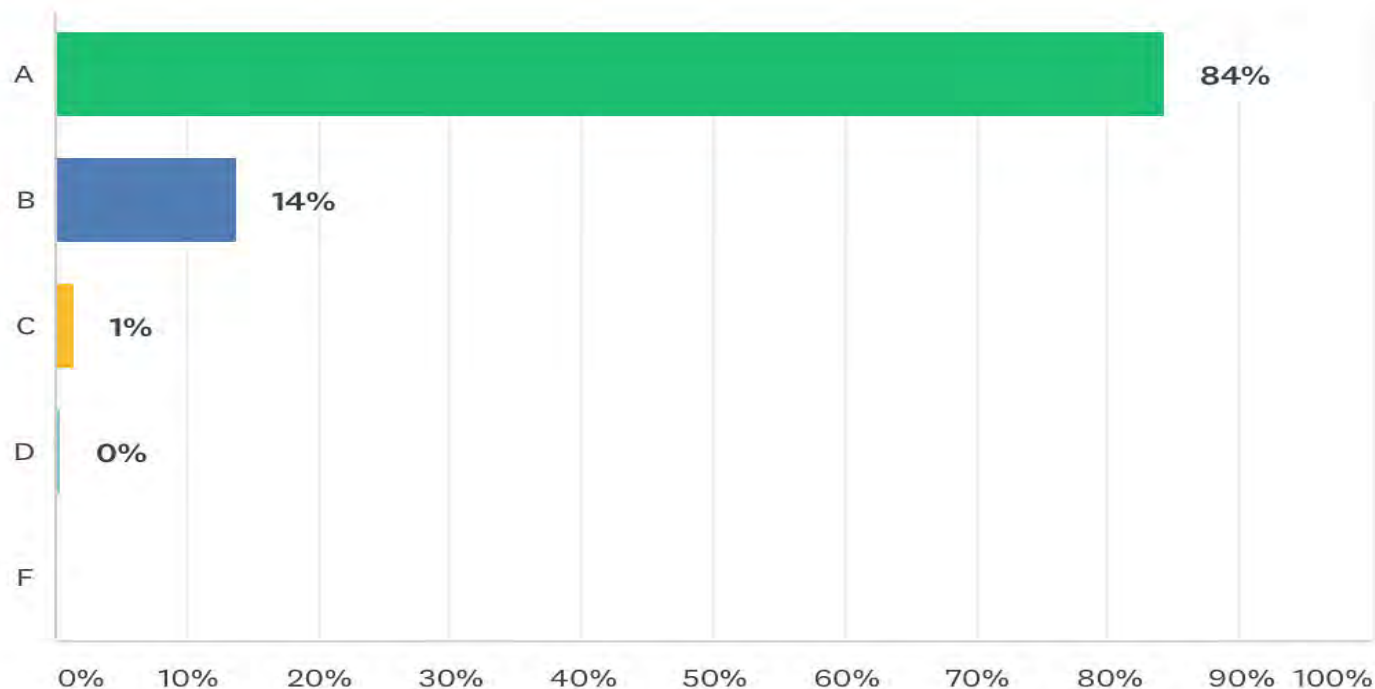
Answered: 292 Skipped: 0



Teachers Results: Classroom Presentations

Please "grade" the overall presentation

Answered: 211 Skipped: 0



New Offerings!

Classroom Presentations

Out of demand from teachers, we created a Jeopardy-themed presentation for individual classes starting in January 2021.

The response from teachers was **OFF THE CHARTS** and we look forward to continuing these presentations, which are different and a supplement to our whole school assemblies.



New Offerings!

Custom Songs & Videos

We also started making custom theme songs and lyric videos for jurisdictions! We created songs for: Daly City, Placer County, Rialto, Rancho Cucamonga, Monterey Park, Fontana, and Berkley.

Check out a couple of examples:

[Daly City](#) & [Rialto](#)

WE GREEN DAILY
FT ECO SHARA



Superhero Performers



EcoHero Lexi



Eco TKO

EcoHero Show + Ventura County's Community for a Clean Watershed

2020-2021 Recap



Funded by
Ventura Countywide Stormwater Quality Management Program



*Ventura Countywide
Stormwater Quality
Management Program*

Performances Details

1. **Date:** 02/24/2021

School: Montalvo Arts Academy

Type of Show: Whole School Assembly

Anticipated # Of Students: 100

Where will students be: All students from home

How Will You Share The Show: Students logging in

2. **Date:** 02/25/2021

School: Parkview Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 600

Where will students be: All students are at home

How Will You Share The Show: Split--some teachers sharing screens, some students logging in

3. **Date:** 03/05/2021

School: Hollywood Beach Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 120

Where will students be: All students from home

How Will You Share The Show: Split--some teachers sharing screens, some students logging in

4. **Date:** 03/26/2021

School: Julien Hathaway Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 375

Where will students be: All students from home

How Will You Share The Show: Split--some teachers sharing screens, some students logging in

5. **Date:** 04/16/2021

School: Walnut Canyon Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 208

Where will students be: All students from home

How Will You Share The Show: Students logging in themselves

6. **Date:** 04/23/2021

School: Ladera STARS Academy

Type of Show: Whole School Assembly

Anticipated # Of Students: 125

Where will students be: Mix of students in classrooms and at home

How Will You Share The Show: Split

Performances Details

7. **Date:** 05/12/2021

School: Santa Clara Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 54

Where will students be: Mix of students in classrooms and at home

How Will You Share The Show: Teachers sharing screens - only a few teachers since this is a small school.

Estimated Students Reached: 2,002

***For our whole school assemblies, we are estimating the total number of students based on what the coordinator informed us when booking. This does not include any estimates of parents watching shows at home, of which there were many. We had a mix of students at home and in class, as well as teachers logged in on one device sharing with their whole class virtually and in person. These variables make it difficult to get an exact attendees count.*

8. **Date:** 05/14/2021

School: Ansgar Larsen Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 400

Where will students be: All students from home

How Will You Share The Show: Students logging in themselves.

9. **Date:** 05/27/2021

School: Conejo Elementary

Type of Show: Whole School Assembly

Anticipated # Of Students: 20

Where will students be: Mix of students in classrooms & at home

How Will You Share The Show: Split

Ventura County Testimonials

"We LOVED it! It was engaging, fun, and informative! The trifecta!"

02/24/2021: Claudia Caudill, Principal, Montalvo

"The students enjoyed the songs and learning about ways they can help the environment."

02/26/2021: Taylor Moore, 3rd Grade, Parkview Elementary

"My students really enjoyed the songs and the fact that they could somewhat interact with the presenters through question and pictures that were show."

02/26/2021: Mrs. Elena Diaz, 5th Grade, Parkview Elementary

"Great balance of information and entertainment. Kept the kids engaged and on task. "

03/05/2021: Lynz Mullaney, 3rd/4th Grade, Hollywood Beach

Ventura County Testimonials

"The students and I thought it was great! We all learned something new today. Thanks for all that you do."

03/05/2021: Barbara D Homokay, Resource Specialist, Hollywood Beach Elementary

"I won't officially know until Monday (because my classes are all online), but I was pretty impressed. I really liked how interactive the assembly was. I thought it was really engaging."

04/24/2021: Rachel Kosmatka, Kindergarten, Ladera STARS Academy

View Positive Feedback from student surveys and chats from live shows here:

[Ventura County Watershed Positive Feedback](#)

Unmeasurable Impact

We compile testimonials from teachers and principals, keep track of the number of students we reach at each school, and get inspired by the groups of children who share with us the eco-action they're taking around their communities. What is harder to track is the positive impact our shows are making on students long-term. Here is a message we received from a teacher at a school in Orange County we had never performed for. We asked how they had heard about us, we received the response outlined below. Thank you for allowing us to reach students like this one!

"I heard about you through my son! I believe you visited Marbella Montessori a couple of years ago and it left a lasting impression on him. Anytime he sees trash on the ground he wants to pick it up and put it in the trash... then says 'somebody was a litterbug! I want to be an eco-hero!' It's awesome because I believe your presentation set the foundation for him to care about the environment."



THE ECOHERO SHOW



www.EcoHeroShow.com | ecoheroshow@gmail.com | 888-482-3885



Eco-tip: Coastal cleanup day customized for COVID-19

David Goldstein

Special to Ventura County Star

Coastal Cleanup Day is Sept. 18, and organizers are offering both designated sites for groups as well as options for people uncomfortable with gatherings. The event website, at www.vccoastcleanup.org, lists 11 Ventura County beaches and eight inland sites chosen for accessibility and amount of litter, for group cleanups on Sept. 18.

[PhotoGallery](#)

Those instead participating in self-guided cleanups, can pick their own sites and dates in September and record their results on the Clean Swell app. Search for the Clean Swell app your device's app store.

This free app features icons to conveniently record what you find, snap photos, provide details – such as who you are with – and post to social media. Volunteers working at their own sites miss out on the free T-shirts available at group sites but can earn an electronic badge instead. After users input data, the app provides the badge, along with congratulations for “a job whale done.”

For those unable to download the app, paper data collection cards are available, in English or Spanish, through www.vccoastcleanup.org, which also has other guidelines and resources. Also, even without the app, participants are encouraged to share cleanup experiences on social media, using the hashtags #coastalcleanupday and #protectyourhappyplace.

The group options, from 9 a.m. to noon at the specified sites, require participants to follow the most recent Ventura County Public Health orders, which are updated regularly at www.venturacountyrecovers.org.



Social distance where possible, and expect to wear a mask, at least when gathering for supplies and drop-off of collected litter. To further reduce close interaction, print and sign the waiver available on the web site, and bring it with you when you arrive.

In consideration of a different kind of health and safety, wear a hat and apply sunscreen before arriving. To reduce waste, whether participating at the group sites or on your own, bring your own reusable bucket, gloves and water bottle.

Since inland litter often ends up at the ocean, the inland sites organized for group cleanup events are generally along waterways, including Calleguas Creek, in Camarillo; Sespe Creek, in Fillmore; Conejo Creek, in Thousand Oaks; Arroyo Simi, in Simi Valley; the Santa Clara River, in Ventura; and the Ventura River, in Ojai.

Those have also been sites in past years, but a group site in Ojai is new this year. Volunteers are meeting at 9 a.m. at a location to be revealed by the Ojai Valley Land Conservancy in response to RSVPs, which should be sent to adam@ovlc.org.

Those participating in Coastal Cleanup on their own this year are encouraged by Coastal Cleanup Day outreach material to “Protect your happy place,” wherever that may be. This could be a nearby park or even your own neighborhood.

Last year, the event was entirely self-guided, with no central organization of group cleanup sites. Ventura County had 1,046 registered participants. This was far more than comparable counties and almost as many volunteers as Los Angeles.

The California Coastal Commission leads efforts statewide; Lara Shellenbarger, of the Ventura County Public Works Agency’s Watershed Protection District, is the countywide coordinator for Ventura County; and

each site has its own site captain. As always, data collection is one of the priorities of organizers.

Eben Schwartz, marine debris program manager of California Coastal Commission, stressed the importance of the data collection element of Coastal Cleanup Day.

"The data have been used to identify the most problematic types of litter, resulting in legislative initiatives," he said.

As examples, he cited California's ban on single-use, plastic grocery bags, and Assembly Bill 1080, which would impose restrictions on single-use plastic packaging, food containers and utensils. The bill is currently stalled in the legislature but is expected to be considered again.

Also, in 2022, California voters will consider an initiative requiring new regulations to reduce single-use plastic packaging and enacting a 1 cent per item fee on single-use packaging and food ware, according to Ballotpedia.org.

David Goldstein, an environmental resource analyst with Ventura County Public Works, can be reached at 805-658-4312 or david.goldstein@ventura.org.

<https://www.vcstar.com/story/news/2021/09/11/eco-tip-coastal-cleanup-day-customized-covid-19/8283218002/>

Appendix 3

Examples of County of Ventura Catch Basin Cleaning Photos



Figure 1: Catch basin prior to cleaning

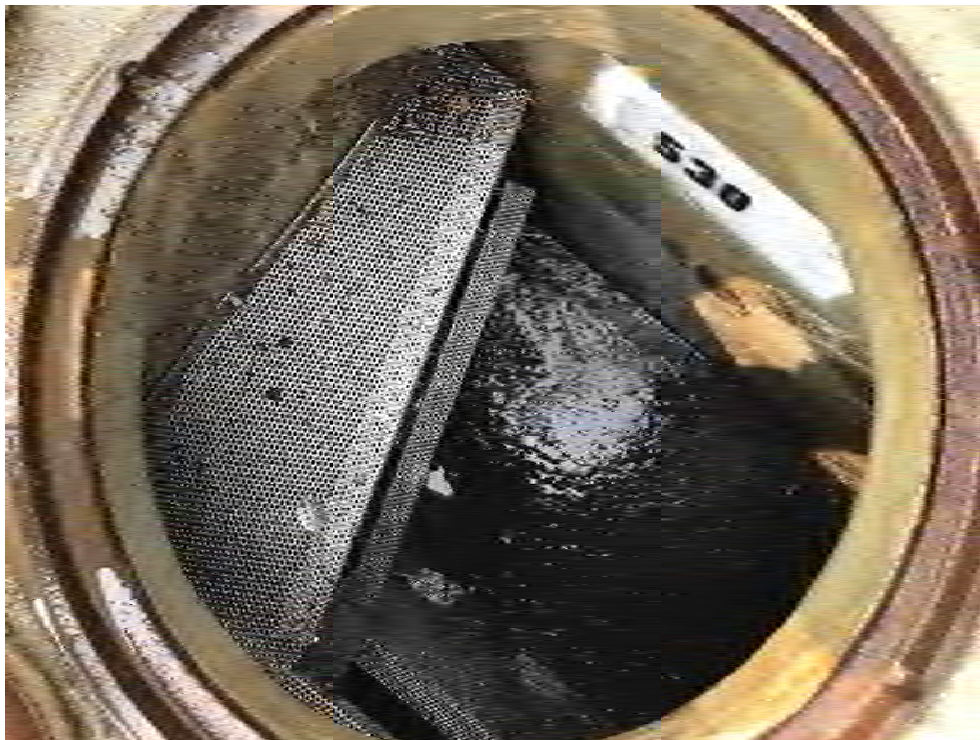


Figure 2: Cleaned catch basin

Appendix 4

Copies of Stop Work Notifications to Los Angeles Water Board Due to
COVID-19 Outbreaks

Mutkowska, Ewelina

From: Mutkowska, Ewelina
Sent: Tuesday, July 21, 2020 9:27 AM
To: LB Nye; Zhu, Jun@Waterboards; Prescott, Alexander@Waterboards
Cc: Pratt, Jeff; Shephard, Glenn; Anselm, Arne; Lomeli, Emily; John Minkel; Paul Jorgensen; Ron Manwill
Subject: Upper Malibu Creek Trash TMDL - Notification of covid-19 issue

Dr. Nye,

On behalf of upper Malibu Creek Trash TMDL Responsible Agencies, this is to notify you that our TMDL consultant, California Conservation Corps, has informed us that due to high number of CCC staff tested positive for covid-19, they are unable to perform trash monitoring work scheduled for July 2020 in the Ventura County's portion of the MCW subwatershed. At this point, it is not clear when CCC is able to resume their operations.

On such a short notice and due to covid-19 impacted operations of the Responsible Parties, we are unable to complete trash TMDL field work in July 2020. We are working on developing an alternative plan to complete future field work activities, hopefully starting in August 2020. We will keep you and your staff informed as we formulate our options and setup timelines.

If you have any questions or need further information, please contact me at (805) 645-1382.

Kind regards,

Ewelina Mutkowska, M.Sc.
Senior Stormwater Manager
Watershed Protection District



800 S. Victoria Ave. / #1610
Ventura, CA 93009-1610
P: 805.645.1382 C: 805.765.5068
[VCPWA Online](#) | [Facebook](#) | [Twitter](#)

Mutkowska, Ewelina

From: Mutkowska, Ewelina
Sent: Wednesday, August 19, 2020 2:56 PM
To: LB Nye; Zhu, Jun@Waterboards; Prescott, Alexander@Waterboards
Cc: Pratt, Jeff; Shephard, Glenn; Anselm, Arne; Lomeli, Emily; John Minkel; Paul Jorgensen; Ron Manwill
Subject: RE: Upper Malibu Creek Trash TMDL - Notification of covid-19 issue

Dr. Nye

I'm happy to report that California Conservation Corps (CCC) have notified us that they are cleared to come back to work.

Our trash TMDL cleanup and monitoring activities in upper Malibu Creek watershed have been scheduled to resume this month, August 2020.

As reported to you on July 21, 2020 (email below), due to last minute cancelation by CCC because of covid-19 illnesses, we have missed only one month of field activities, July 2020.

Best, Ewelina

Ewelina Mutkowska, M.Sc.
Senior Stormwater Manager
Watershed Protection



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To: LB Nye <lb.nye@waterboards.ca.gov>; Zhu, Jun@Waterboards <Jun.Zhu@waterboards.ca.gov>; Prescott, Alexander@Waterboards <Alexander.Prescott@Waterboards.ca.gov>
Cc: Pratt, Jeff <Jeff.Pratt@ventura.org>; Shephard, Glenn <Glenn.Shephard@ventura.org>; Anselm, Arne <Arne.Anselm@ventura.org>; Lomeli, Emily <Emily.Lomeli@ventura.org>; John Minkel <JMinkel@toaks.org>; Paul Jorgensen <pjorgensen@toaks.org>; Ron Manwill <RManwill@toaks.org>
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Mutkowska, Ewelina

From: Mutkowska, Ewelina
Sent: Monday, December 14, 2020 3:36 PM
To: LB Nye; Zhu, Jun@Waterboards; Prescott, Alexander@Waterboards
Cc: Pratt, Jeff; Shephard, Glenn; Anselm, Arne; Lomeli, Emily; John Minkel; Paul Jorgensen; Ron Manwill
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Mutkowska, Ewelina

From: Mutkowska, Ewelina
Sent: Tuesday, January 5, 2021 7:58 AM
To: LB Nye; Zhu, Jun@Waterboards; Prescott, Alexander@Waterboards
Cc: Pratt, Jeff; Shephard, Glenn; Anselm, Arne; Lomeli, Emily; John Minkel; Paul Jorgensen; Ron Manwill
Subject: RE: Upper Malibu Creek Trash TMDL - Notification of covid-19 issue

Good Morning and Happy New Year

I'm pleased to inform you that our consultant, California Conservation Corps, is able to resume trash assessment and cleanups per Malibu Creek Trash TMDL in January 2021.

Best, Ewelina

Ewelina Mutkowska, M.Sc.
Senior Stormwater Manager
Watershed Protection



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Cc: Pratt, Jeff <Jeff.Pratt@ventura.org>; Shephard, Glenn <Glenn.Shephard@ventura.org>; Anselm, Arne <Arne.Anselm@ventura.org>; Lomeli, Emily <Emily.Lomeli@ventura.org>; John Minkel <jminkel@toaks.org>; Paul Jorgensen <pjorgensen@toaks.org>; Ron Manwill <RManwill@toaks.org>
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