



ENVIRONMENTAL MANAGEMENT DEPARTMENT August 2017

PERMANENT COSMETIC SALONS USING MICROBLADING ARE THRIVING IN SACRAMENTO

Sacramento has seen an increase of permanent cosmetic salons and practitioners recently, primarily due to microblading, one of the



tattooing technique used to apply semi permanent makeup. The micro blade, which is a single instrument made of numerous needles fused together, is swept in crisp, individual lines across the area being

brows. The tiny needles that make up the micro blade are approximately the same diameter as a piece of hair.

Microblading deposits pigment, tattoo ink, in the upper surface of the skin and is considered semi permanent. The skin eventually exfoliates and the pigment fades or disappears in 1-3 years. Permanent

tattooed so that the result appears as fine lines, such as eye-



cosmetic practitioners fall into the same regulated category as tattoo practitioners. They apply for permits with the Environmental Manage-

ment Department and are inspected for sanitation, disposable tools, adequate hand-washing, proper record keeping procedures, the use of bins for disposing of hazardous materials (needles) and completion of a Blood borne Pathogen class. These requirements are mandated by the California Safe Body Art Act.

THE EVOLUTION OF MAPPING TECHNOLOGY AT EMD

by Derek Jacks, Chris Hunley and Katie Miller

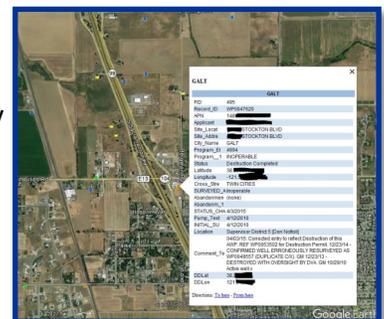
On average, 35% of Sacramento County's public water supply comes directly from groundwater. To help protect these water sources and the public water distribution system, Sacramento County Environmental Management Department (EMD) created a Geographic Information System (GIS) based risk assessment mapping tool (Map) in Google Earth. The Map allows EMD staff to quickly identify locations of abandoned wells, determine public water system and po-

litical boundaries, and identify areas of known groundwater contamination. Together, these Map features have improved EMD's ability to prevent potential contamination of the County's water supply.

BACKGROUND

In 2009, EMD implemented its Abandoned Wells Program. The objective was to survey, identify, and track abandoned water wells throughout Sacramento County. Improperly

maintained abandoned



Abandoned Wells Map With Info Summary For a Site

wells can allow surface pollution to migrate through the inside of the well and down into clean drinking water aquifers. Even worse,

Board of Supervisors

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Executive, Social Services

**Marie Woodin, Interim
Director
Environmental
Management
Department**

abandoned large diameter wells can allow people, pets, and wildlife to fall into them resulting in injury and death!

After 4 months of initial field surveying, the amount of incoming abandoned well data was increasing and being managed by several different EMD staff. To assist with visualization of the abandoned well data, EMD staff began a pilot project using Google Earth's free mapping software. Two immediate benefits were identified in the Google Earth pilot project. First, Google Earth provided more accurate Global Positioning System (GPS) coordinates than the hand held GPS units. These GPS coordinates were added to EMD's Envision Connect database and then plotted as a tracking layer in Google Earth. Second, EMD was able to share the abandoned well location data with the Sacramento County Department of Technology and have the data added on the County's GIS Parcel Viewer. This was significant because the abandoned well locations could now be seen by other county agencies, initiating communication and awareness of problem abandoned wells.

Between 2014 and 2015, a new abandoned well survey team joined EMD and digital mapping was of great interest to the program. One of the new team members, Katie Miller, had prior GIS training and experience and was able to apply her skills to EMD's existing abandoned well data.

Katie was able to use the existing data to create a more detailed layer for the Map. EMD staff could now access Google Earth to quick-

ly verify if a suspected abandoned well was already in EMD's system or needed follow-up. This made planning for fieldwork more efficient because staff could focus on areas where multiple abandoned wells are located.

In 2015, the use of GIS expanded to include other programs. In the Cross-Connection Control program it is used to help backflow testers and EMD staff verify if a regulated facility is in one of our regulated water districts. This helps expedite the test report routing process. EMD is in the process of mapping all the active facilities in our CUPA programs. The goal is to use GIS to analyze enforcement data and identify high concentrations of violations and focus education and outreach.

In 2016, EMD's GIS dataset was further expanded to include known soil and groundwater contamination areas throughout the County. Former leaking underground storage tank sites that are overseen by the EMD Site Assessment and Mitigation program and regional groundwater contamina-

tamination maps, or staff institutional knowledge, to determine plume boundaries. Now it is as easy as typing in an address to de-



Railyard Plume Mapping

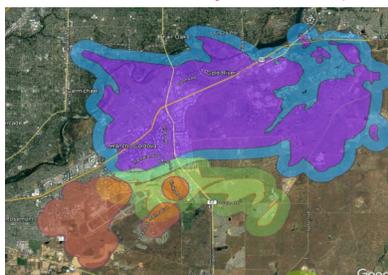
termine if the well location falls within 2,000 ft. of known contamination. By using current technology, the EMD Well Program is able to help prevent new wells from being installed in these contaminated areas and to aid with collaborative agency management efforts of newly identified groundwater plumes.



McClellan Plume Mapping

Since implementation in 2009, EMD's GIS mapping efforts have been instrumental in protecting groundwater and public health. Previously identified abandoned wells are able to be tracked and located in cases of improper well destruction. Regulated backflow testers and EMD's partnering water agencies are able to quickly identify the water district for each backflow assembly. Potential well risk assessment can be completed more efficiently and help prevent groundwater from further degradation. GIS provides the opportunity to analyze and display our data in a visual format. It can be used to create project maps and provide maps for field work during emergencies, like flood events. Thank you to all staff who have helped develop this critical water protection resource!

Mather and Aerojet Plume Map



tion plumes managed by state agencies are added regularly. Previously, well permitting staff relied on photocopied groundwater con-

STATE FAIR 2017



The annual calm-before-the-storm inspector photo. Not all of the Fair inspectors are shown but this is many of the staff who will spend a long day performing inspections on the Fair's opening day.

16 Inspectors
189 Total Inspections

Netting was the temporary fix for the issue of food prep needing to take place in an enclosed area free of flies and insects. The cooking demo tent had been wide open to insects upon opening day.



220 Food Operators
attended EMD's free, onsite,
food safety class



What could go wrong with an icee? The icee booth is inspected like any other food service booth, for handwashing sinks, cleanliness and to assure that the equipment is clean and sanitized.



The United States Department of Agriculture had a presence at the Fair this year with a fun for kids, air conditioned, educational truck on site.

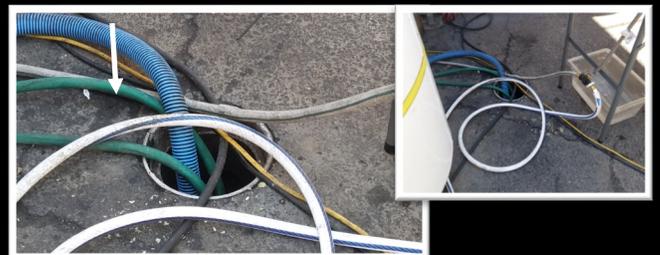


9.3% ↑
Handwashing
Violations

Surprise! During a re-inspection for a different issue, it was discovered that a set of refrigerated holding pans weren't cold...the breaker switch to the unit was flipped off. The food was far below safe holding temperature and had to be discarded.



636,628
Fair Attendees



Making it work! This green wastewater hose had to travel quite a distance to make it to an acceptable sewer opening for discharge. The food booth had originally been discharging wastewater straight into the landscape which was a major violation!



Recycling Sign / State Fair

KEEP THE CAP ON?

Did I read that right?

Recycling collection and processing technology has improved, and the high density polyethylene (HDPE) cap is recyclable so yes, leave the cap on when recycling your plastic bottles. Although closures are made of a different material than the bottle, both caps and bottles are

ground into flake before being vigorously washed in the recycling process. The washed cap material is separated from the bottle material during a bath process in which the HDPE cap material floats. Both the plastics are then recycled into new items. But, once plastic has been used, it will never be recycled into another food grade plastic item.

Don't squish the bottle. Plastics recycle better when retaining a 3D form.

<https://www.plasticsrecycling.org/education/faqs/caps-on>



TIPS FOR ENJOYING THE SOLAR ECLIPSE

The only safe way to look directly at the un eclipsed or partially eclipsed sun is through special-filter solar filters such as "eclipse glasses" or hand-held solar viewers. Homemade filters or ordinary sunglasses are not safe for looking at the sun. Refer to the American Astronomical Society (AAS) Reputable Vendors of Solar Filters and Viewers page for a list of manufacturers and authorized dealers of eclipse glasses and hand-held solar viewers that are verified to be compliant with the ISO 12312-2 international safety standards for such products.

<https://eclipse.aas.org/resources/solar-filters>

- DON'T LOOK AT THE SUN DIRECTLY WITH YOUR EYES, OR UNFILTERED CAMERA, TELESCOPE, OR BINOCULARS
- IF YOUR VIEWING GLASSES ARE SCRATCHED, DISCARD THEM

<https://www.space.com/33797-total-solar-eclipse-2017-guide.html>

CONGRATULATIONS ARE IN ORDER

Charley Langer recently passed the **Lead Project Monitor** Written Exam. Lead Project Monitors oversee Lead Related Construction (LRC) work in residential or public buildings to ensure that contract plans and specifications are followed, evaluates LRC work, and may conduct testing to determine if contamination is adequately controlled. This certificate includes Performing air monitoring to assess exposure levels and dust wipe sampling to ensure adequacy of containment

Dennis Catanyag and Sonia Andalusia

recently passed the **Lead Inspector Assessor** test. This Certification includes:

- Taking paint chip, dust, or soil samples or using an XRF machine to test painted surfaces
- Conducting visual inspections to examine the condition of painted surfaces and the location of lead hazards in the building
- Interpreting laboratory and XRF test results
- Preparing reports on the amount of lead hazards in a building and the risks of lead poisoning to the building occupants
- Recommending cost effective ways to safely handle the lead hazards
- Ensuring no lead hazards remain after lead abatement work or other construction work where lead is present

By the Numbers July 2017	
Food Facility Placards Issued	Jul-17
A. Green – Pass	240
C. Red – Closed	9
B. Yellow – Conditional Pass	13
Inspections	
Abandoned Wells	2
Above Ground Storage Tank	3
Body Art	7
Food Protection (includes reinspections and food events)	526
Farm Labor Camps	2
Public Swimming Pools/Spas	1262
Solid Waste Facilities (landfills/transfer stations)	21
Liquid Waste	18
Medical Waste	5
Small Water Systems	0
Wells and Monitoring Wells	55
Businesses/Facilities Generating Hazardous Waste	167
Businesses/Facilities Storing Hazardous Materials	192
Underground Storage Tank Facilities	26
Underground Storage Tank Removal, Installations, Upgrades, Repairs	17
Recycled Water	0
Storm Water Non Food Facility	69
Waste Tire	39
Tobacco Retailer	0
Commercial/Multi-Family Recycling	32
Organics Recycling	1
Refuse Vehicle Inspections/	0
Septic Tank Pumper Trucks	1
Total	2445
Investigations	
Body Art	7
Consumer Complaints	90
Food Borne Illness	7
Incident Response	58
Solid Waste	1
Storm Water	0
Waste Tire	0
Childhood Lead	Not Available
Total	163
Class Attendance	
Food Safety Education (Food School)	115
Hazardous Materials Business Plan (HMP) Workshop	7
Underground Storage Forms Workshop	3
Total	125
Plans, Permits, and Reviews	
Abandoned Wells	31
Hazardous Materials Business Plans	333
Body Art	9
Monitoring Wells/ Water Wells	123
Liquid Waste	34
Food Facilities	153
Public Swimming Pools/Spas	328
Underground Storage Tanks Plans and Permit Reviews	5
Land Use	28
Local Oversight Program	1
Cross Connection Permits (Blue Tags)	2511
Total	3556
Imaging	
Document Pages Imaged	Not Available



Hazardous Material Plan Workshops

The Environmental Management Department offered one Hazardous Material Plan Workshops for **seven** attendees during July 2017. EMD staff assisted each person with the process of submitting their Hazardous Waste Plans electronically, as mandated by the California Environmental Protection Agency, effective January 1, 2013.



Food Safety Education Classes July 2017

Attendees 115

Facilities Represented 24

Onsite 5
Offsite 3

Languages Represented

English 3
Spanish 1
Cantonese 1
Korean 1
Punjabi 0
Russian 1

EC Division offered two **Underground Storage Tank (UST) Workshops** in July 2017. During the workshops, EMD staff assisted **three** attendees with submitting UST forms electronically through the California Environmental Reporting System.

