



The NASSCO Tidepool

A Collection of Environmental News from the Shipyard and Our Community.

2ND QUARTER, 2003

06/13/03

Environmental Engineering Mission Statement

NASSCO Environmental Engineering is dedicated to maintaining an Environmental Management System that continually strives to go beyond regulatory compliance.

NASSCO Environmental Engineering is committed to conducting all operations in a manner that safeguards the health and safety of all employees and the public, preserves natural resources, and protects the environment. This commitment to protecting the air, water, and land is carried out through energy conservation initiatives, recycling programs, and on-going process improvements.

Injured Elephant Seal Pup found at NASSCO

Martin M. Espinoza, Jr., Production Associate



On April 1, 2003, 12:30 p.m. while doing a NASSCO routine diving inspection, Tom Fanelli and Tony Stevenson of NASSCO observed an elephant seal pup swimming towards their boat. The seal had a stingray barb lodged into his neck. As the seal came close to the boat,

Tony decided to help it. Tony removed the stingray barb, the animal swam several times around the boat as if to show its gratitude. The seal finally went under and started swimming towards the shore adjacent to the Alaskan Queen Barge.

Tom and Tony concluded their diving inspection, and noticed that the animal had beached itself and was not moving. The Animal Recovery Team at Sea World was called in so that they could come and take the injured seal to their care facilities.

In researching this article, I found that injured animals taken to the Sea World rehabilitation facilities are mostly stranded pinnipeds (seals, sea lions, and walruses). California sea lions are the most commonly rescued marine mammals in Southern California, followed by elephant seal pups and harbor seals.

Many of the rescued sea lions suffer from exhaustion, malnutrition, dehydration, internal parasites, and various injuries. Occasionally, animals are rescued that have injuries resulting from entanglement from trash, debris and fishing nets or bites from predators.



Members of NASSCO's Dive Team Junior Lopez, John Bautista, Phil Stanfill, and Tom Fanelli

What you can do to help?

Anytime you observe an animal in distress, please call Security at x8401 so that we can contact the proper authorities to get the medical attention needed as soon as possible.

Do not try to assist the injured animal yourself, as most animals in distress, can bite. Some even carry infectious parasites which can lead to serious illness in humans.

We here at NASSCO share in the responsibility to care for surrounding sea life. The best help we can provide injured animals is to contact the proper authorities. Thereby insuring them a good prognosis for recovery and quick release back into the wild.

Environmental Newsletter Naming Contest - Winner Announced !



Congratulations Vince Palencia, Production Associate in the Professional Development Program, whose suggestion, "The NASSCO Tidepool, A Collection of Environmental News from the Shipyard and Our Community" was the unanimous selection of Environmental Engineering Department for the name of our quarterly newsletter.

Thanks to everyone that participated in the Newsletter Naming Contest!



NASSCO Joins the Fun of Bike to Work Day

Kacey Christie, Environmental Engineering Specialist

Several NASSCO employees joined in the fun of Bike-To-Work Day last May 16th.

The Environmental Engineering Department gave away an ISO 14001 polo shirt to one lucky rider. The winner was, Daniel Pena of the Maintenance Department.

All NASSCO employees that entered the Environmental Engineering contest were given certificates recognizing their Commitment to Our Environment.

Mike Ayres, Staff Engineer in Blast, Paint and General Services participated in Bike to Work Day for the 5th time. Mike has been riding his bike to work, everyday, rain or shine for the last 7 years. He takes quite a unique bike path. Mike a resident of Coronado, first rides his bike down to the Ferry Landing and catches the Coronado Ferry at 6:15am. Here he takes a leisurely



Daniel Pena

15-minute cruise across the Bay to the Broadway Pier. From there it's a 3-mile run down Harbor Drive to NASSCO.

Some NASSCO employees were quite adventurous and rode their bikes to work for the first time on Bike To Work Day. Two such employees were Sonia Moseley and Sandy Dunkel in the Benefits Department. They rode their bikes from their homes in Lakeside to the El Cajon where they caught the trolley to downtown San Diego. They then completed

the bike ride to NASSCO. Great Job Sonia & Sandy, thanks for giving Bike To Work Day a try!

Many NASSCO employees have been riding their bike to work everyday for years. We in Environmental Engineering would like to honor their *Commitment to our Environment* as well. If you, or someone you know rides their bike to work, please give us your name and mail stop, we will send you a *Commitment to Our Environment* certificate.



Mike Ayres

SOC-3 Continues to Improve Our Environment Thru Recycling

Chuck Zumwalt, HazMat Coordinator SOC 3



Since the first of the year, SOC-3 has been looking for ways to improve the Environment through recycling. The Environmental Engineering Department approached us with their Shop Towel Recycling Program. We reviewed the program and found out that based on our rag usage there could be a cost savings to our department's overhead budget.

In addition to saving money purchasing and disposing of single-use rags as hazardous waste, we have saved man-hours in replenishing the shop towel drums since Prudential Overall, the shop towel laundry service now handles this task for us.

We still have room for improvement on this project, such as reminding team members that only shop towels are to be placed into the Shop Towel Recycling Drums, and that sweatbands, welders' gloves, tee shirts etc. should be disposed of in the trash skip tubs, providing they are not contaminated with hazardous materials (grease, oil etc.).

All in all this is a good program for the department, the Environment and NASSCO by reducing Hazardous Waste and Saving Money!

In April of this year we began recycling aluminum cans and plastic bottles. The white recycling drums can be found in the various lunchrooms of SOC 3.

Until next time, HAPPY HAZWOPPING!



Meet Your Hazmat Coordinators: Myrna Orman

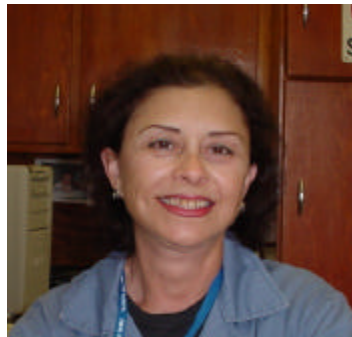
Chad Haza, Environmental Administrator

13 years ago to this month, Myrna Orman interviewed for a position at NASSCO. If you've met Myrna before you would know that she comes in a small size but can be tough as nails when it comes to getting a job done.

During her first 3 years Myrna worked a variety of positions from Fire Watch to ship cleaning and assisting in the storage and maintenance of our scaffolding material. In 1994 she heard of a position available in the Wastewater Treatment Facility, and after visiting the area and reviewing the duties she knew that this was a position to pursue and to this day you can find Myrna doing an outstanding job at the facility.

Myrna has been a HazMat Coordinator for her area for 2 years now and to her taking on this responsibility has only improved her appreciation of our environment. By nature, she likes her surrounding to be very clean and that in itself is half the battle for effective HazWaste Management. Actively she promotes recycling and her forward thinking of future conditions for her children and grandchildren is a constant reminder for good environmental practices. She is also very optimistic about NASSCO's future in regards to Safety and Environmental concerns. She has noted that over her span of employment she witnessed an drastic improvement in safety measures, employee respect, and environmental practices and it doesn't seem to be slowing down.

What Myrna hopes to see in the future is a yard wide improvement on the cleanliness habits of our yard. She cited a specific example of how some yard areas can be care-



less in regards to the disposal of earplugs and small plastic items, even sunflower seeds. As it turns out the washwater that she receives at the Wastewater Facility is often polluted with these objects making her job all the more difficult.

Myrna thanks her daughter, a welder at the time, for encouraging her to apply 13 years ago. Myrna grew up in Mexicali, Mexico. In Mexico, she was a nurse but she couldn't find the same opportunity here in the States. In retrospect she hasn't looked back, Myrna feels very fortunate to be an integral part of NASSCO.

Off work hours, Myrna is fond of gardening, dancing, and music. Her favorite music genres are blues and jazz, she likes to sit back and listen to the sounds of B.B. King and Louie Armstrong. Myrna has 2 daughters and a son along with 5 grandchildren. An interesting trait that I uncovered about Myrna was that she longs for the open road on a cycle trip. If she had her way with no worries in the world, Myrna would be seen traveling on the road in a motor home with perhaps a motorcycle or two in tow. Taking her time she would explore the world town by town, cherishing the community that would unfold before her.

2003 Annual Inspection by the San Diego Air Pollution Control District

Dina Torgerson, Environmental Engineering Specialist



On Friday, May 9th Randy Stegen, Compliance Inspector with the San Diego Air Pollution Control District (APCD), visited NASSCO for the annual site inspection. As in the past, the inspection was unannounced. The inspection lasted until Friday May 16th. In addition to Randy who is NASSCO's usual inspector, Peter Crane also a Compliance Inspector with the APCD, joined the inspection from May 12th through the 16th.

The inspectors covered the entire 28th Street Yard and all our APCD permitted equipment. NASSCO has over 80 pieces of permitted equipment. During the inspection, the equipment, related documents, and data are checked for

compliance. At the end of the inspection, the inspectors presented NASSCO with violations for the following:

- Three open paint cans.
- Operation of a dust collector while the pressure drop across the filter media was out of range with the air permit limit.
- Usage of a resin with a higher volatile organic compound (VOC) content than was allowed.

The Departments that were responsible for the violations were notified and they immediately took action to correct the violations.

There is a monetary fine that is associated with the air violations. The APCD's Compliance Division is in charge of assigning the value of the fine based on the severity of the violations. An invoice is usually sent a month afterwards.

In addition to the annual air inspection, NASSCO is under a quarterly inspection schedule. The quarterly inspections are not as lengthy as the annual inspections. They usually last one to two days. The quarterly inspections are also unannounced. During a quarterly inspection, the inspector can inspect any equipment, activities, and/or permits.

Oxidizer Test

Dina Torgerson, Environmental Engineering Specialist

On February 19th, the San Diego Air Pollution Control District's (APCD) chemists were at NASSCO to test the oxidizer on the Shapes Line. The APCD requires an annual test of the oxidizer.



Pictured above are Arturo Valadez, Dina Torgerson, and Tony Hawthorne at the oxidizer

The air emissions from the Shapes Line's paint booth are captured and exhausted into the oxidizer. The oxidizer, which operates above 1400° F, converts the organic emissions to water vapor and carbon dioxide.

The APCD collected and analyzed the air emission data.



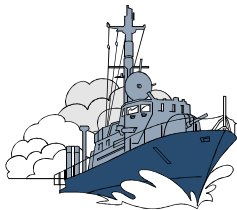
Pictured above is Julius Fuller receiving a NASSCO jacket from Dina Torgerson

They then sent the test results to NASSCO. The results show that 100% of the organic emissions are converted into water and carbon dioxide and that the oxidizer is operating in compliance with the air permit.

On the day of the test, the following operators Arturo Valadez, Tony Hawthorne, and Julius Fuller worked with me and the APCD personnel to ensure that the required air emission data was collected. To recognize them for their contribution, they were presented with Environmental Certificates and NASSCO jackets.

Environmental Engineering Assignments for Third Quarter of 2003

Environmental engineers are assigned to specific Housekeeping Areas for a period of six months. At the end of six months, the engineers rotate into different Housekeeping Areas. If you have any environmental questions or problems and need help, please contact the environmental engineer assigned to your housekeeping area. Assignments for next quarter are as noted below:



<u>Environmental Engineer</u>	<u>Housekeeping Area Assignments</u>	
• John Martin x3553	Blakey	Wilhelmi
• Kacey Christie x7963	Severs	Dickson
• Dina Torgerson x8674	Stroebel	Dodd
• Mike Chee x7778	DelCamp	Dykeman

Environmental Engineers are assigned on a permanent basis to the following New Construction Ships:

<u>Ship</u>	<u>Environmental Engineer</u>
• Tote 2	Mike Chee x7778
• BP 1	Kacey Christie x7963

John Martin (x 3553) is assigned as the environmental representative to all of the Repair Ships in the NASSCO yard and at the Naval Facilities.

Meet Your Hazmat Coordinators: Paul Walker

Chad Haza, Environmental Administrator

Paul Walker is the HazMat Coordinator for Stage of Construction 1. He's been involved in HazMat responsibilities for little over a year now. From his point of view Paul gets satisfaction that he is doing his part for our environment by ensuring that hazardous material is properly disposed of. His knowledge of hazardous requirements makes him a mentor for others when questions arise. Being able to answer these much needed questions, Paul states, "is very satisfying."

Paul was born and raised in Pittsburgh, Pennsylvania. When football season comes around you'll find the Steelers well represented. Joining the Navy at the age 18 Paul was stationed in San Diego and ever since then has called San Diego his home. With a home out in Lakeside, Paul is happily married with 3 daughters. After asking Paul what is was about San Diego that made him stay, he replied, that the weather is beautiful here and there are so many choices for recreational outings. Paul is an avid fisherman, visiting the East County lakes whenever he can get away.

Paul remembers back to the first few years he moved into his East County home. This region becomes very dry and combustibile and a fire came close to taking his home. Paul is adamant about fire safety and the devastating effects negligence of it can have on our environment and personal property. Paul also is concerned with water con-



servation and when an opportunity arises for him or his family to conserve water, they put forth effort to help conserve our short supply of water whenever possible.

As a HazMat Coordinator, Paul is on top of the issues that we face. From segregation of our materials and proper disposal to what goes down the storm drains in his area Paul always wants to be informed on how to improve his role and stay abreast of current situations. Asking Paul what kind of HazMat issues that he would like to see improved, a few things came to mind. With a chuckling laugh, rags are a bit of a problem since there is such abundance of them and with constant use, keeping track of their proper disposal can get hairy. Paul is an advocate of the shop towel recycling program and hopes in the future to do away with rags altogether.

Paul also enjoys shooting pool and playing darts with his friends. A recent hobby of Paul's is wine collecting, it's a small collection but growing steadily.

Saving Manufacturing Jobs

Patti Krebs, Executive Director, Industrial Environmental Association

Manufacturing does matter -- that was the central theme of two high-level summits held this past month in San Diego. The first, spearheaded by U.S. Congressman Duncan Hunter, Chairman of the House Armed Services Committee, focused on the defense and aerospace industry; the second, organized by the County of San Diego and led by Supervisor Dianne Jacob, brought together San Diego's diverse industrial base including ship-building, electronics, biotechnology, golf, food processing, printed circuit board -- and even a guitar maker.

The message was clear, San Diego's local manufacturing base in jeopardy. Most revealing are statistics just released from the State's Economic Development Department's documenting that 4,500 manufacturing jobs were lost in San Diego during 2002 -- 800 of those jobs disappeared in December alone.

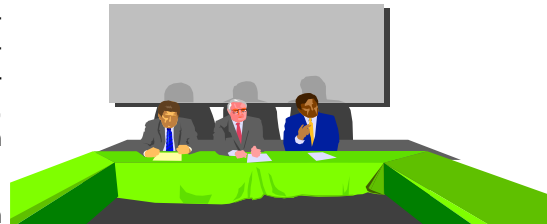
A recent survey by the California Manufacturers & Technology Association revealed that California has the worst

anti-business climate in the nation and the cost of doing business in the state was 32% higher than anywhere else in the country.

The reason manufacturing is so critical to the economy is best reflected in the fact that the average manufacturing job pays \$25,000 more than the average service job, provides the greatest opportunity for education, skilled training and upward mobility to supervisory and management levels.

Speaker-after-speaker lined up during each summit to outline the day-to-day difficulties facing companies including ever-increasing demands to stay competitive. At the county's event, Steve Clarey of NASSCO highlighted the need for additional workforce training programs.

Both Congressman Hunter and Supervisor Jacob have pledged they will take an aggressive role to save manufacturing and will develop follow-up action plans as a blueprint for the future.



San Diego's a City of Water Conservation Volunteers

Luis Generoso, Water Resources Manager, City of San Diego, Water Department

Conserving water is more than just a passing thought for San Diegans, it is a way of life. Although water surrounds San Diego's beaches and bays, it has a semi-arid climate and averages only nine inches of rain annually. Since rainfall is not enough to accommodate the city's needs, conserving water is vital.

The Water Conservation Program supports everybody conserving water voluntarily by providing information about water-wise habits and encouraging the installation of low water-use devices.

For instance, more than 3,420 vouchers redeemed by people voluntarily participating in programs like the High-Efficiency Clothes Washer (HEW) Voucher Program has resulted in more than 17 million gallons of water saved each year.

Another voluntary resource, the online Landscape Watering Calculator, has attracted more than 31,000 residents. More than 8,100 of those residents have created watering schedules – saving an estimated 480,000 gallons of water per day.

Why not join the thousands of San Diegans who have already volunteered to conserve water? Here are some easy tips for how you can get started:

- Keep a jug or pitcher of water in the refrigerator to fill your glass, instead of letting the water run down the sink when you want a cool drink.
- Collect water used from rinsing produce, and reuse it to water houseplants.
- Defrost frozen food by placing it in the refrigerator overnight or using a microwave, instead of putting it under running hot water.
- If you have a fish tank that needs to be cleaned out, use its water as a fertilizer treatment on your houseplants because it is rich in nitrogen and phosphorous.
- Use a trigger nozzle when washing the car to prevent the hose from running additional water, or take your car to a carwash that uses recycled water.
- Bathe pets outdoors in a landscaped area so that you maximize water usage by also watering your grassy lawn.
- Set lawn mower blades one notch higher, since longer grass reduces evaporation.
- Prevent over-watering your lawn and garden by creating a free customized watering schedule with the online Landscape Watering Calculator available at www.sandiego.gov/water/conservation.
- Request a free on-site evaluation of your indoor and outdoor home water use, complete with recommendations, by calling the City of San Diego Water Department's Residential Water Survey Program at (619) 515-3500 or email water@sandiego.gov.



The Water Conservation Program reduces water demand through promoting or providing incentives for the installation of hardware that provides permanent water savings, and by providing services and information to help San Diegans make better decisions about water use. For more information about Water Conservation, visit www.sandiego.gov/water or call



Seagulls in the Yard

Martin M. Espinoza Jr., Production Associate

We have a history of why the seagulls are here in the yard. Even though NASSCO is on the Bay, which is a prime habitat for seagulls, we are also in the crossfire of their scavenging habits and the habits of employees who eat lunch on the premises and don't put their waste in the trashcans. An abundant food source is what attracts the seagulls to NASSCO and which is why they choose to nest here.



What's wrong with this picture?

A seagull landed on top of the crane and made a nest. The nest now holds eggs, waiting to hatch. The U.S Department of Fish & Wildlife Service was called to remove the nest. However, they told us that these birds are protected while nesting and we cannot use the crane or move the nest until the baby bird's hatch.



What can you do to help out?

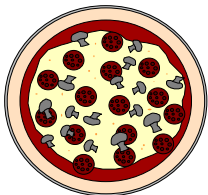
- Tell everyone about the negative consequences of feeding the birds.
- Seek cooperation in disposing of trash in the proper containers in the yard.
- If you see a bird starting to make a nest on critical equipment, contact Environmental at x7506 so that the nest can be legally removed before the eggs are laid.
- Never leave food or lunch items unprotected or out in the open.
- Solicit suggestions for additional improvements on how to prevent the birds from nesting and/or feeding on the grounds.
- Nominate the cleanest area in the yard for an Environmental Star Award in recognition for a job well done (Look for nomination forms in July).



Graham Dodd has recently purchased new trashcans lids for his Houskeeping Area (SOC 1 & 2) in order to prevent seagulls from spreading trash around and making a mess.

If we work together and keep our lunch areas clean of trash and leftovers, the seagulls will realize that NASSCO is free of food and handouts. Let's work together to make the shipyard a cleaner place! **Please Don't Feed The Birds**

HazMat Coordinators Appreciation Pizza Party



Environmental Engineering hosted a Pizza Party in the Juneau Room on Friday, March 28, 2003 in order to show appreciation of the excellent efforts of the Designated HazMat Coordinators and their supervisors.

In addition to thanking our coordinators for their outstanding efforts in support of NASSCO's Commitment to Our Environment, we kicked off our new Environmental Engineering Newsletter and requested input from those in attendance.



Environmental Engineering Training for 3rd Quarter 2003

Environmental Engineering will be conducting the following training courses next quarter

JULY - ENV 08 NIIMS Incident Command Training

This course provides spill management personnel an overall awareness of the National Interagency Incident Management System (NIIMS) based upon the Incident Command System (ICS).

The course is conducted by Coast Guard personnel and is required for NASSCO spill management personnel and spill response subcontractors. Contact John Martin directly (x3553) if you have questions concerning your attendance in this course.

AUGUST - ENV 03 NPDES Training

This course provides an overview of NASSCO's NPDES Permit and covers such topics as Prohibited Discharges, Allowed Discharges with Conditions, Vessel Discharges, Emergency Fire-fighting Activities Discharges, Environmental Engineering Procedures and NASSCO BMPs.

The course is for those involved in the implementation of NASSCO's NPDES Permit discharge requirements - Test and Trials, General Services, Waterfront Services, and N/C & Repair Ship Managers.

SEPTEMBER - ENV 06 Designated Customer, Team Member, Subcontractor & Supplier Training

This course provides an overall awareness of environmental laws, regulations, and NASSCO policies and procedures that affect shipyard operations. The course topics include NASSCO's EMS, hazardous materials/waste management incident reporting, and emergency response at NASSCO.

This course is a mandatory annual requirement for customers, team members, subcontractors and suppliers DESIGNATED in accordance with Environmental Procedure Manual, Procedure No. 03, Environmental Training, Awareness and Competence.

NOTE: Representatives from NASSCO Purchasing and/or Contracts are welcome to attend this course in order to gain insight into the environmental rules, regulations and policies the designated customers, team members, subcontractors and suppliers are subject to.

If you are interested in signing up for any of the above courses, please e-mail Chad Haza (chaza@nassco.com) the following information:

Environmental Course Name and/or Number

Your Name

Your Contact Information: Phone Number, Mail Stop, E-mail Address

Your Supervisor's Name



This newsletter is generated by the NASSCO Environmental Engineering staff and is intended for the enjoyment of its readers by providing information on a variety of environmental topics. Information and/or opinions expressed herein reflect the knowledge and opinions of the author and not necessarily the entire Environmental Engineering Department, NASSCO or General Dynamics.

If you are interested in submitting an article of environmental interest, or would like us to address one of your questions/concerns, please contact us at Environmental Engineering, Mail Stop 22A.

Editor: Kacey Christie Layout: Chad Haza

Contributors: Martin M. Espinoza Jr., Luis Generoso, Patti Krebs, Myrna Orman, Vince Palencia, Dina Torgerson, Paul Walker, Chuck Zumwalt