

A Community Newsletter
Produced by the
Torrance Refinery

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CRUDE OIL 101

We all know that motor oil and gasoline come from crude oil. What many people do not realize is that crude oil is also the starting point for many diverse products such as clothes, medical equipment, electronics, vitamin capsules and tires.

Whether on land or under the ocean, crude oil comes from deep underground where the remains of plants and animals from millions of years ago have been heated and pressurized over time. Generally blackish in color, crude oil has a characteristic odor that comes from the presence of small quantities of chemical compounds containing sulfur and nitrogen. There are different grades of crude oils. Each grade has a specific composition that is determined by the original decomposed source materials as well as the properties of the surrounding soil or rock formations. It can be light or heavy, referring to density, and sweet or sour, referring to its sulfur content. However, in its raw state, crude oil is of little use. It must be refined to make it into useable products. Depending on the type of crude oil, it is treated via different refining processes to turn it into fuels, lubricating oils, waxes, chemicals, plastics and many other products used every day in modern society.

Once discovered, drilled and brought to the earth's surface, crude oil is transported to a refinery by pipeline, ship or both. At the refinery, it is treated and converted into consumer and industrial products.

Modern refinery and petrochemical technology can transform crude oil into literally thousands of useful products. From powering our cars and heating our homes, to supplying petrochemical feedstocks for producing plastics and medicines, crude oil is an essential part of our daily lives.



What a barrel of crude oil makes.

Product	Gallons per Barrel
Gasoline	19.4
Distillate Fuel Oil	9.7
Kerosene-Type Jet Fuels	4.3
Coke	2.0
Residual Fuel Oil	1.9
Liquefied Refinery Gases	1.9
Still Gas	1.8
Asphalt and Road Oil	1.4
Petrochemical Feedstocks	1.1
Lubricants	0.5
Kerosene	0.2
Other	0.4

One barrel contains 42 gallons of crude oil.

Source: API



ASK PETE



Pete Trelenberg welcomes Max Ocansey to the Torrance Refinery.

ExxonMobil's Baytown, Texas, refinery processes 557 thousand barrels per day of crude oil into products including low-sulfur motor gasoline, lubes and chemical feedstocks.

By the time you read this, I'll be in Houston. In November, I became Manager, Special Projects, Planning and Business Development, ExxonMobil Chemical Company.

The move is bittersweet. I have enjoyed my three-plus years here in Torrance; my community activities — working with El Camino College Foundation, the Cultural Arts Center Foundation and the Chamber — will be something

that I'll miss greatly. In my new role, I'm returning to ExxonMobil Chemical Company, the company with which I first began my career with ExxonMobil. I look forward to reconnecting with former colleagues as I help identify and develop integrated venture opportunities for ExxonMobil in my new position.

Max Ocansey is the new Torrance Refinery Manager. Max comes to Torrance from our Baytown [Texas] Refinery, ExxonMobil's largest U.S. refinery, where he served as Process Manager. With over 25 years in various positions with ExxonMobil, Max has the experience that will serve this refinery and community well. Like



me, he has three children and looks forward to continuing his family's involvement in sports.

I know that Max will enjoy getting to know Torrance and hearing from all of you.

Best wishes,

Pete

PUBLISHER'S BOX

Neighbor to Neighbor is published periodically as a community service by the
ExxonMobil Torrance Refinery
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 Torrance, CA 90509-2929.

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24-Hour Neighborhood Hotline (310) 505-3158

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Max Ocansey, Torrance Refinery Manager, wants to hear from you! Please submit questions you have about the refinery. Questions not printed in the newsletter will be addressed by direct mail or by phone. If you have an immediate concern, please contact Public Affairs at (310) 212-4756.

Q: _____

Name*: _____ Daytime phone number*: (____) _____

Address*: _____
Street City Zip Code

To submit your questions tear off this form and mail to:
ExxonMobil • Public Affairs/Ask Max • 3700 West 190th Street • Torrance, CA 90509

* By submitting your name, you agree to be identified in *Neighbor to Neighbor* as the author of the question you submitted. Only questions submitted with name and contact information will be considered for publication. Addresses and phone numbers are required for verification purposes and follow-up and will not be published.

Pegasus Awards Program

2006 - 2007

We need to keep looking for even better ways to retrieve and use the energy resources we have – and for new ways to provide energy altogether. That’s why ExxonMobil’s Torrance Refinery, with the ExxonMobil Foundation, is funding the development of the most powerful resource of all: brainpower.

The Torrance Refinery is pleased to sponsor the Pegasus Awards, a program designed to aid in the development of innovative educational projects within the Torrance Unified School District. This year, over 100 teachers won \$100,000 in educational grants. Teachers from all grade levels won funding for 1) General Academic, 2) Classroom Supplementary and 3) Environmental Emphasis Pegasus Awards. Highlighted below are the Environmental Emphasis winning projects and teachers.

See What You Can’t See...Microscopic Organisms

Lynn Middle School

Donna Tucker and Henry Osborne

Ocean Institute’s Advanced Floating Laboratory

Torrance High School

Kim Nuechterlein-Evatt

The Science Behind Gardening...Synthetic vs. Natural Fertilizers

Wood Elementary School

Sabrina Morgan, Lori Perez, Susan Crandall and Kirstin Nakafuji

To view all winners, visit www.torrancerefinery.com.

Forums for Feedback

Community Advisory Panel (CAP) to begin new term

The ExxonMobil Community Advisory Panel (CAP) is ending its current term, and we are recruiting new members for the 2007 – 2009 term.

Our CAP has existed for many years as a means for the community to provide feedback to the refinery. The CAP is comprised of concerned citizens who meet regularly with ExxonMobil representatives to exchange ideas on how we can become a better neighbor. CAP members also help keep ExxonMobil representatives informed about community activities, perceptions and other pertinent information.

Details

Meetings: Weekdays - every other month beginning in February (February date TDB)
4:30 to 6:30 p.m.

Topics: A variety of topics, including concerns about refinery operations, emergency warning tools and energy industry issues

Eligible Members: Torrance residents or employees

Questions/Interest: Call (310) 212-1852 or e-mail TorranceCAP@exxonmobil.com

Thank you to our 2005 – 2007 CAP members!

Chris Barbour	Sara Guyan	Irene Ordaz
Councilman Tom Brewer	Deane Haddon	George Porter
Chuck Bruley	Bill Haas	Carol Posner
Iva Cahill	James Henry	Terry Ragins
Chief Ken Carter	Judi Hying	Robin Solomon
Ray Chikahisa	Steven Katz	John Spradling
Richard Clutter	Dennis King	Jackie Thorton
Michael Dilustro	Dr. John Kulluk	Christine VanderLeest
Robert Doddy	Cathy McFarlane	Suzie Wand
Linda Dryer	John McGee	Pat Williams
Chris Getchius	Ray Miller	Melissa Wright
Melvin Glass	Kim Muise	Rick Yamasaki
Steve Goldsmith	Bryant Ng	

From Torrance Green to Harvard Crimson

Green Team Program Participant Reflects on Past and Sees Bright Future

During the break before her junior year at North High, Janice Whang started a summer job at the Torrance Transit Office. Little did she know that it would help to take her all the way to Nigeria and Afghanistan.

This extraordinary North High graduate is in the midst of some exciting adventures and challenges, and believes that the foundational skills she uses each day were mastered during her first job with the Green Team.

In a unique partnership with Torrance Unified School District and the City of Torrance, ExxonMobil founded the Green Team program over 10 years ago to provide summer jobs and academic enhancement to Torrance high school students. The program includes classroom and on-the-job training in a variety of fields.

The most important part of the program is the lasting impact it has on its students. Four years after Janice Whang’s

Green Team experience, she is now in her junior year at Harvard, studying political science. Since graduating from high school, she’s traveled to Afghanistan and Nigeria, and hopes to one day have a career in international development.

“My Green Team training taught me skills that got me where I am today,” she explains. “Specifically, I learned a lot about interpersonal skills – which helped me work with people from all walks of life.”

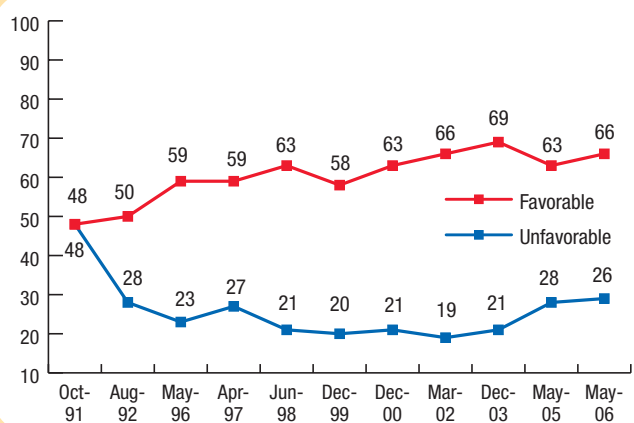
Green Team 2007 recruitment occurs in the spring in coordination with high school counselors.

ExxonMobil supports similar Green Team programs in seven other U.S. cities.

2006 Annual Torrance Survey

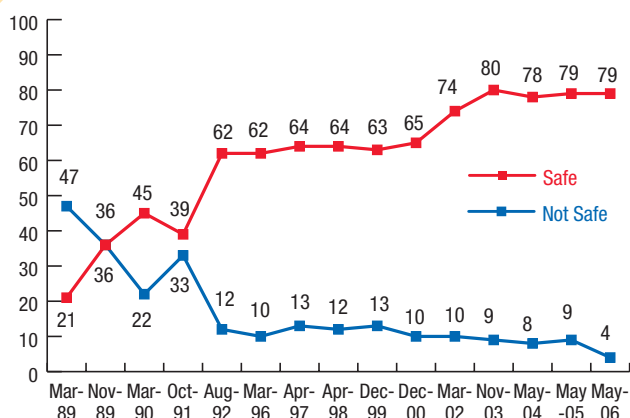
We asked, and you told us...

Is your general impression of the (ExxonMobil) Refinery in Torrance favorable or unfavorable?



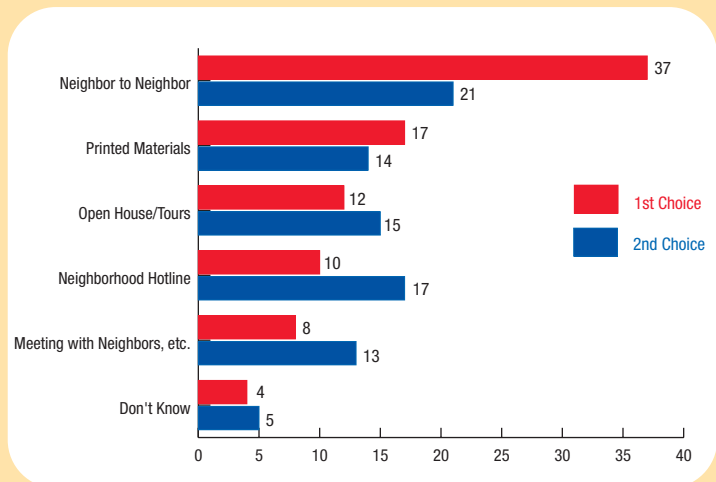
Sixty-six percent of respondents had a favorable view of the refinery. Although we're pleased with these high favorability ratings, we're also working to better understand why 26 percent had an "unfavorable" impression.

How would you rate the Torrance Refinery on safety?



Seventy-nine percent believed that the Torrance Refinery was safe. This percentage is stunning considering that only 21 percent of voters thought we were safe in 1989. Safety is our top priority. We will not be satisfied until we have achieved a work environment in which Nobody Gets Hurt.

Here are five things the Torrance Refinery does to keep people in Torrance informed about its operations and activities. Of this list, which ONE is the most valuable as far as you, personally, are concerned?



Although 37 percent prefer this newsletter as a means of learning about refinery activities, it is a decrease from 2005, when over half of respondents preferred receiving information via newsletter. We would welcome your suggestions on making this newsletter more useful and interesting.

2006 Refinery Ratings ["10" is best]

Being prepared to respond to an emergency	7.6
Maintaining the refinery's outside physical appearance	7.6
Being a good neighbor	7.3
Controlling noise	7.2
Doing a good job of maintaining refinery equipment	7.2
Alerting the community in the event of a safety or environmental incident	7.1
Responding quickly and satisfactorily to questions and safety concerns	7.0
Keeping the community informed about their operations and safety performance	6.9
Listening to people in the community	6.9
Caring about the environment	6.0
Controlling odors	5.9
Controlling pollution	5.6

Overall, these ratings are consistent with last year's survey. However, the biggest change was in "being a good neighbor" which increased to 7.3 from 7.0. We are aware of our consistently lower ratings in "controlling odors" and "controlling pollution." We seek to drive incidents with environmental impact to zero, and to operate in a manner that is not harmful to the environment.

Which one is the most important thing businesses can do in supporting the Torrance community?

Improving local schools	33%
Protecting the environment	22%
Supporting higher education programs and opportunities	11%
All of these should be high priority	8%
Youth activities and programs	7%
Supporting local charities, community groups, and civic groups	6%
Services for seniors	4%
Supporting local health organizations	3%
Don't know	3%
None of these should be high priority	2%
Supporting local arts programs, museums, and the fine arts	1%

Respondents believe that supporting education is very important. And we do too. During 2005, ExxonMobil affiliates and ExxonMobil Foundation combined to provide \$133 million in charitable contributions and community investments; \$43 million were gifts in the pre-college education and higher education areas.