La Jolla Indian Reservation

Tribal EPA Conference

October 23, 2008

ELECTRONIC WASTE PRESENTATION

Electronic Waste

- What is electronic waste? Washers & dryers, televisions, refrigerators, old VHS or DVD players, CD and radio players
- Most waste haulers will not allow you to simply throw them away
- Many times you will find old TV's, refrigerators, washers, and dryers littered throughout the Reservation or sitting in a persons yard
- Educate Tribal residents on what is considered E-waste and why it is dangerous to illegally dump in the environment

E-Waste History

- In 2005, used or unwanted electronics amounted to approximately 1.9 to 2.2 million tons. Of that about 1.5 to 1.9 million tons were primarily in landfills.
- Only 345,000 to 379,000 tons were recycled
- E-Waste represents 2% of America's waste in landfills but it equals 70% of overall toxic waste

Dangers of E-Waste (Lead)

- Found in glass panels in computer monitors and TVs.
- It can accumulate in the environment and have a detrimental effect on plants, animals, and humans.
- 40% of the lead found in U.S. landfills comes from discarded electrical and electronic products
- Lead can migrate to both groundwater and soil when landfilled.

Dangers of E-Waste (Lead)

- Harmful health effects of lead include decreased growth, hyperactivity, impaired hearing, and brain damage.
- Lead is stored primarily in the bones, but is particularly toxic to the reproductive and nervous systems, the blood, and the kidneys.
- Children's brains and nervous systems are more sensitive to the damaging effects of lead.

Dangers of E-Waste

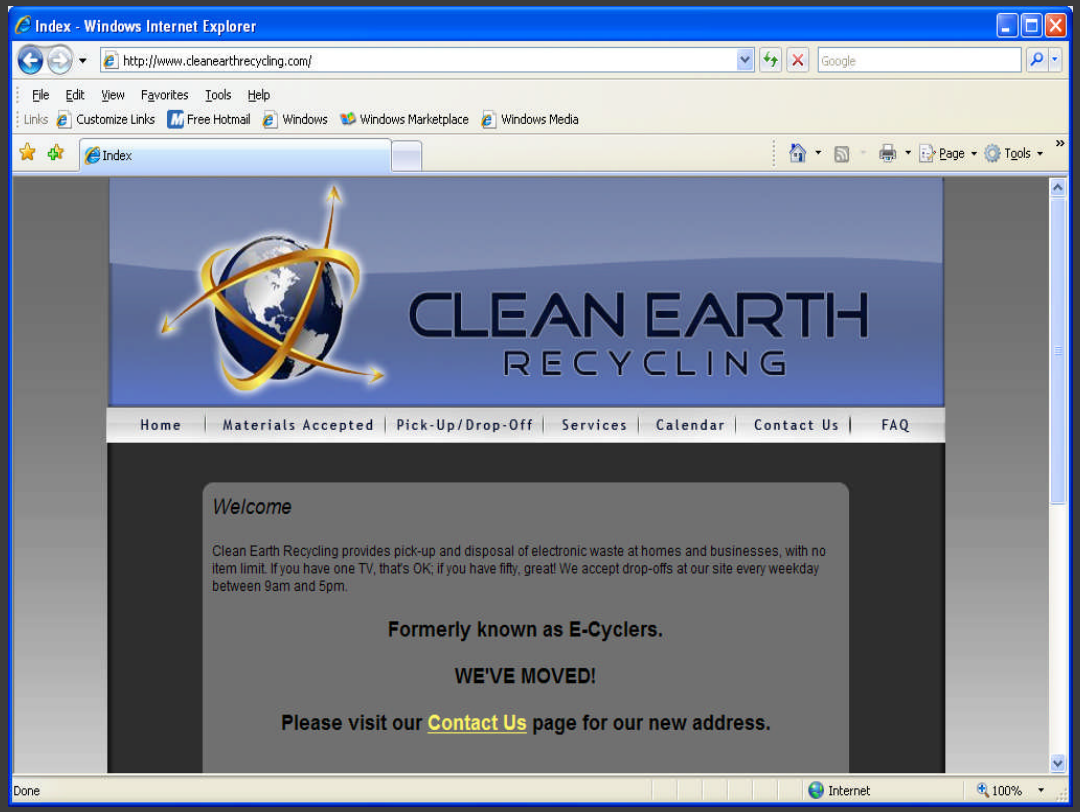
- Mercury- it is found in thermostats, position sensors, discharge lamps, and batteries. Mercury can cause brain damage.
- Hexavalent Chromium- can be used to protect against corrosion of untreated and galvanized steel plates. It can damage DNA and has been linked to asthmatic bronchitis. The major pathways are through landfill leachate or from ash generated when materials containing chromium are incinerated.
- Cadmium- Found in chip resistors and it can accumulate in and damage the kidneys.

Electronic Waste

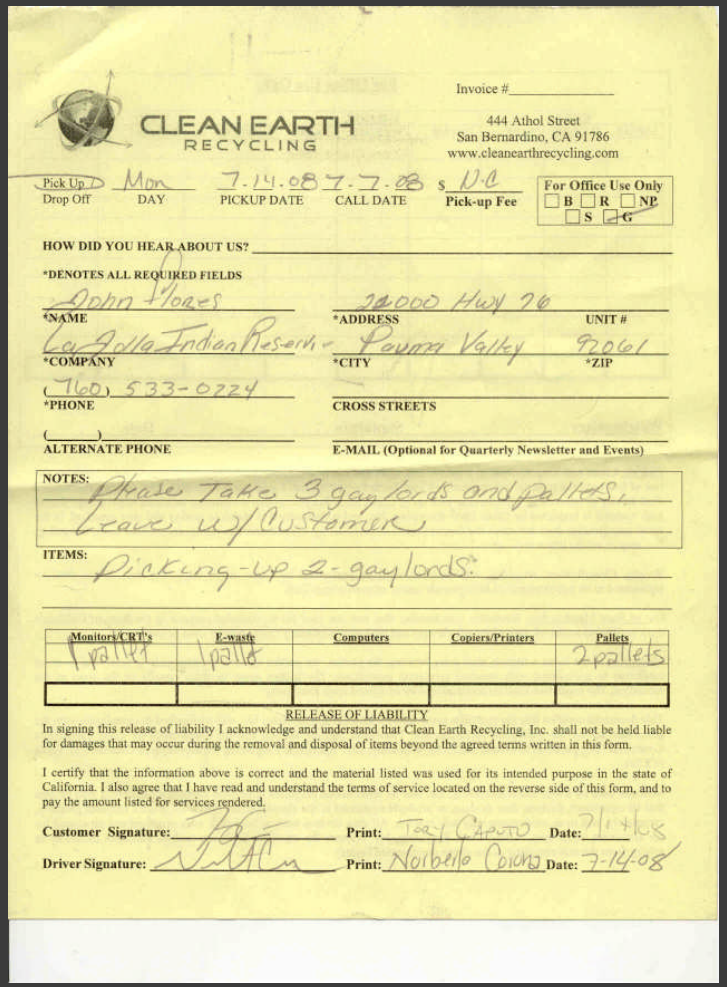
- Set up a centralized or multiple drop off areas for electronic waste
- Set up an area in your transfer station, it does not take up much space
- Put signs up in the transfer station showing the designated drop off area
- Research to find a company in your area that will remove E-Waste free of charge
- Find out what E-Waste they will and will not take
- Contact local electronic stores (Best Buy or Fry's) to see if they have E-Waste collection days
- Look for other grants to pay for the removal of E-Waste (Best Buy)

La Jolla E-Waste Drop-Off Center

Website: www.cleanearthrecycling.com



Pick up form



CLEAN EARTH RECYCLING

444 Athol Street
San Bernardino, CA 91786
www.cleanearthrecycling.com

Invoice #_____

Pick Up / Drop Off: Pick Up | DAY: Mon | PICKUP DATE: 7.14.08 | CALL DATE: 7.7.08 | $ Pick-up Fee: N.C

For Office Use Only: ☐ B ☐ R ☐ NP ☐ S ☑ G

HOW DID YOU HEAR ABOUT US? _____

*DENOTES ALL REQUIRED FIELDS

*NAME: John Flores | *ADDRESS: 12000 Hwy 76 | UNIT #:

*COMPANY: La Jolla Indian Reserv. | *CITY: Pauma Valley | *ZIP: 92061

*PHONE: (760) 533-0224 | CROSS STREETS:

ALTERNATE PHONE: (_____) | E-MAIL (Optional for Quarterly Newsletter and Events):

NOTES: Please Take 3 gaylords and pallets, Leave w/ Customer

ITEMS: Picking-up 2-gaylords

Monitors/CRT's	E-waste	Computers	Copiers/Printers	Pallets
1 pallet	1 pallet			2 pallets

RELEASE OF LIABILITY

In signing this release of liability I acknowledge and understand that Clean Earth Recycling, Inc. shall not be held liable for damages that may occur during the removal and disposal of items beyond the agreed terms written in this form.

I certify that the information above is correct and the material listed was used for its intended purpose in the state of California. I also agree that I have read and understand the terms of service located on the reverse side of this form, and to pay the amount listed for services rendered.

Customer Signature: _____ Print: Tony Caputo Date: 7-14-08

Driver Signature: _____ Print: Norbello Colons Date: 7-14-08

Items Accepted by Clean-Earth Recycling

Computer Technology

- Computer towers
  Speakers
  Keyboards
  Mice
  Trackballs
  Tablets
  Microphones
  Headsets
  Webcams
  External hard drives
  Printers
  Scanners
  Computer instruments (AUX pianos, drums, etc.)
  Spare parts (wireless cards, hard drives, graphics cards, etc.)
  Laptops
  Servers (PC/Mac)

CRT & Video Devices

- LCD monitors
  LCD TVs
  Plasma devices
  DLP projection TVs
  Projectors
  Console TVs
  Computer monitors

Items Accepted by Clean-Earth Recycling (Continued)

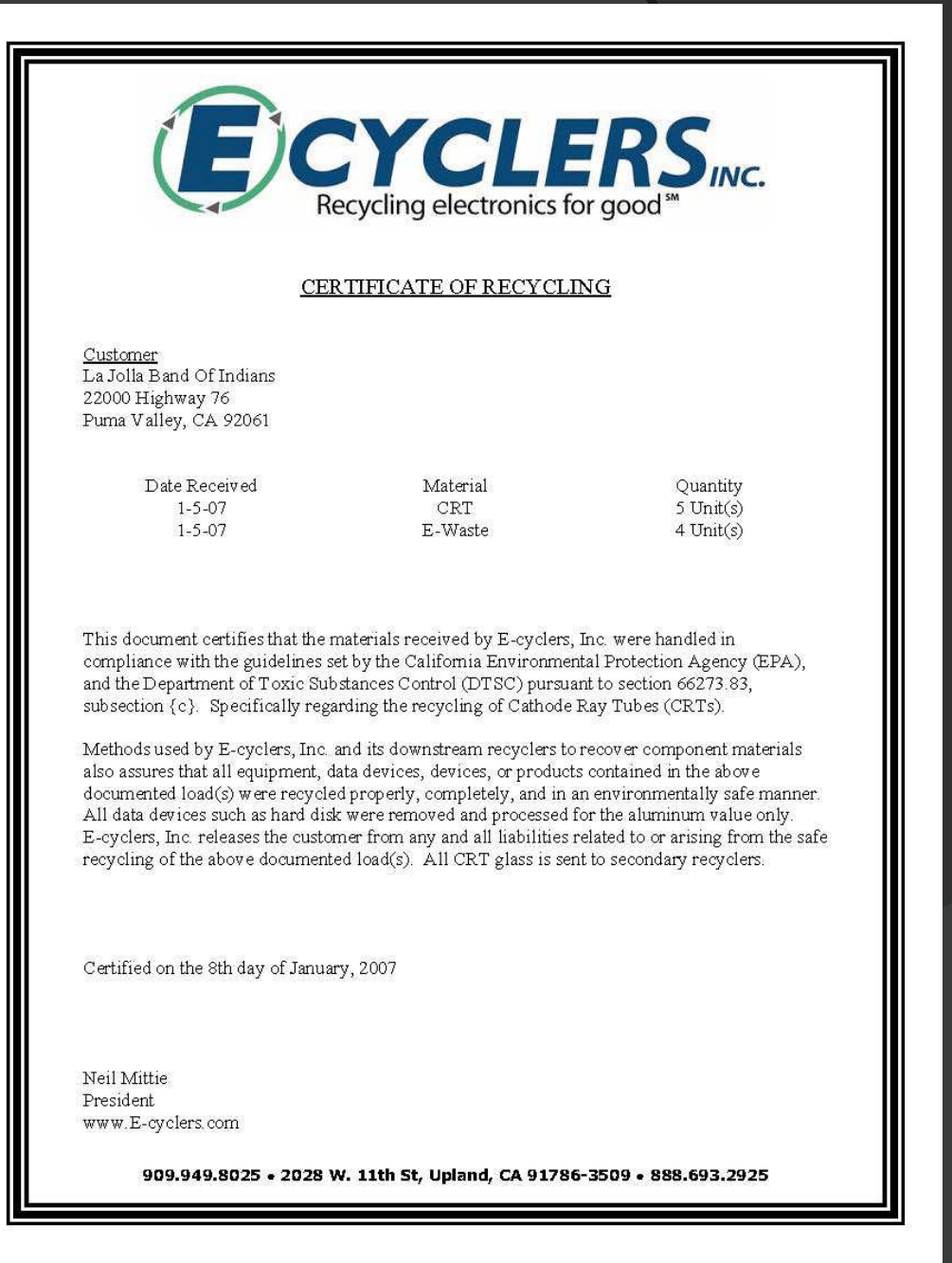
Household Appliances

- VCRs
  DVD & CD players (portable & stationary)
  Sound systems
  Stereo systems (portable & stationary)
  CD players
  MP3 players
  Cassette players
  Gaming systems (Wii, Playstation, X-Box, etc.)
  Portable gaming systems (Nintendo DS, Gameboy Advance, etc.)

Microwave ovens
Telephones & cell phones
Dishwashers
Washers & dryers
Refrigerators
Freezers
Lamps
Toasters
Fans
Air conditioners
Vacuum cleaners
Steam cleaners
Electric generators
Adapters

Certificate of Destruction

Issued by Clean Earth Recycling after our first pick-up in January 2007



E-CYCLERS INC.
Recycling electronics for good℠

CERTIFICATE OF RECYCLING

Customer
La Jolla Band Of Indians
22000 Highway 76
Puma Valley, CA 92061

Date Received	Material	Quantity
1-5-07	CRT	5 Unit(s)
1-5-07	E-Waste	4 Unit(s)

This document certifies that the materials received by E-cyclers, Inc. were handled in compliance with the guidelines set by the California Environmental Protection Agency (EPA), and the Department of Toxic Substances Control (DTSC) pursuant to section 66273.83, subsection {c}. Specifically regarding the recycling of Cathode Ray Tubes (CRTs).

Methods used by E-cyclers, Inc. and its downstream recyclers to recover component materials also assures that all equipment, data devices, devices, or products contained in the above documented load(s) were recycled properly, completely, and in an environmentally safe manner. All data devices such as hard disk were removed and processed for the aluminum value only. E-cyclers, Inc. releases the customer from any and all liabilities related to or arising from the safe recycling of the above documented load(s). All CRT glass is sent to secondary recyclers.

Certified on the 8th day of January, 2007

Neil Mittie
President
www.E-cyclers.com

909.949.8025 • 2028 W. 11th St, Upland, CA 91786-3509 • 888.693.2925

Disposed & Recycled E-Waste in 08 by La Jolla Indian Reservation

- We have had three pickups for this last year and have a fourth one scheduled
- CRT- (TV/Monitor) 1816 lbs
- E-waste- 2798 lbs
- Batteries- 431 lbs
- Total= 5045 lbs

Impact on the Community

- La Jolla started its E-Waste collection center in December 2006
- We have educated people about the dangers of E-Waste
- No longer see E-Waste illegally dumped throughout the Reservation
- People have begun to ask about other disposal programs (oil and HHW)
- Tribal members call our office for any questions regarding E-Waste or if they need help disposing of it