

ILLEGAL DUMPING PREVENTION

Tribal Recycling Workshop

ABOUT MYSELF

Layne Duesterhaus
Illegal Dumping Prevention Coordinator
NMED - Solid Waste Bureau

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- Provide education and outreach to communities to help prevent illegal dumping and ensure proper scrap tire management
- Former employers include Capitol Area Council of Governments Austin, TX, City of San Marcos, TX, and Texas State University
- Bachelors Degree in Environmental Science Texas State University

OBJECTIVE

To educate Tribe members on how to identify

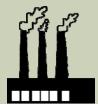
illegal dumping and develop effective prevention

measures in their communities.



POLLUTION

The Introduction of contaminants into the natural environment that cause adverse change.



ILLEGAL DUMPING



ILLEGAL DUMPING

"When you toss materials anywhere but the appropriate bin, it is considered dumping or littering, and it is illegal."

-- Recycle Santa Fe

ILLEGAL DUMPING

"... An Open Dumpsite is a land disposal site at which solid wastes are disposed of in a manner that does not protect the environment, is susceptible to open burning, and is exposed to the elements, disease vectors and scavengers...."

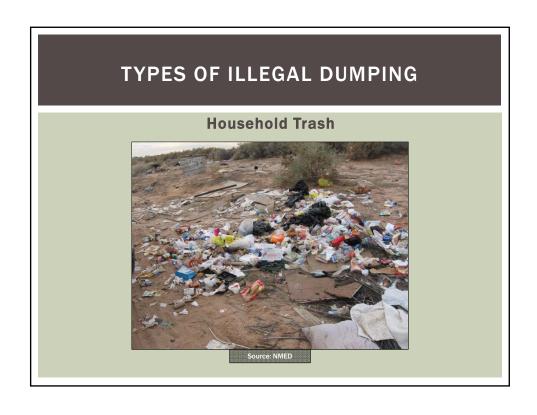
-- U.S. EPA

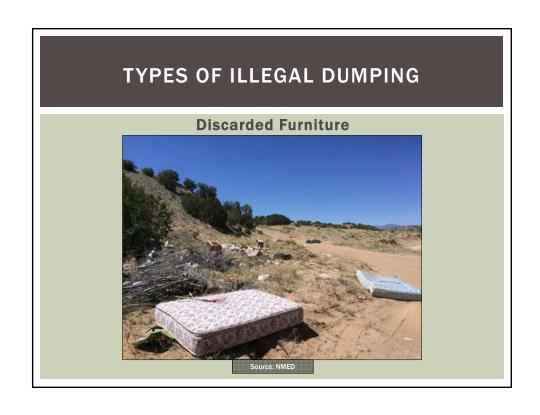
ILLEGAL DUMPING

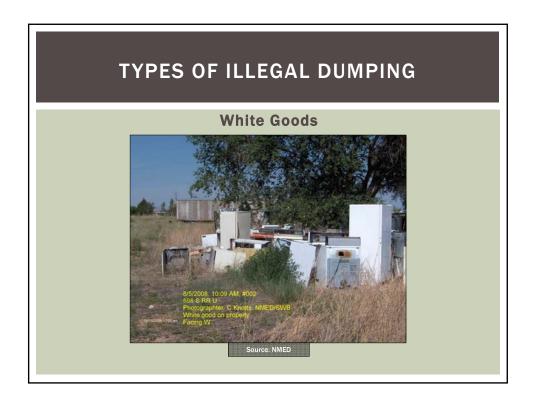
Also referred to as:

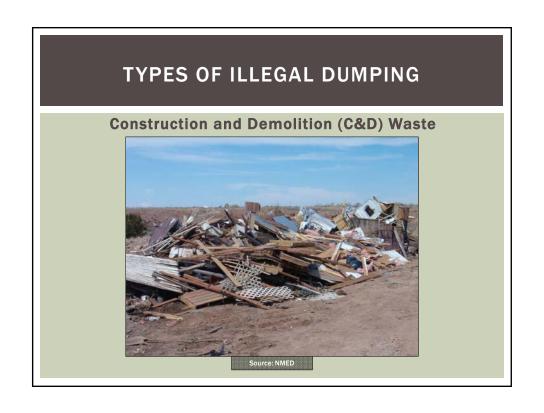
- Open Dumping
- Midnight Dumping
- Fly Dumping

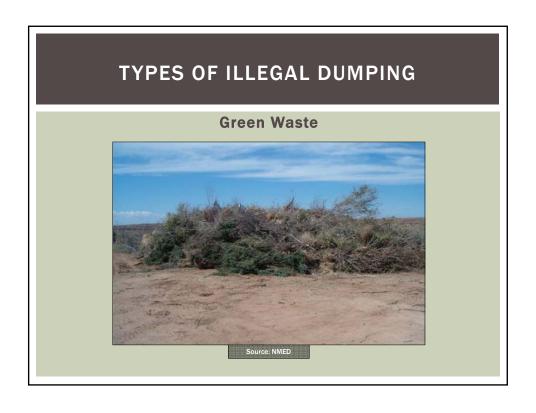


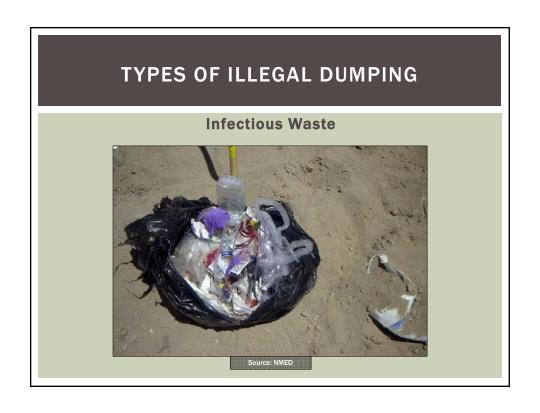


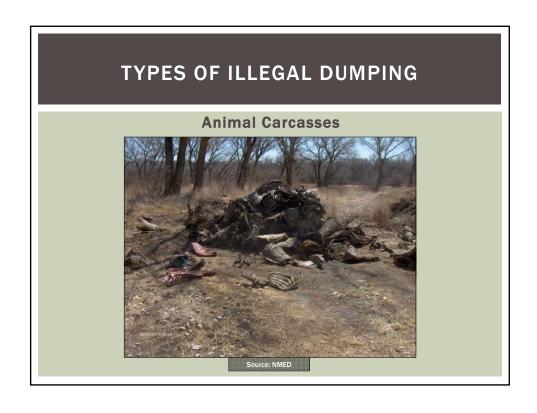


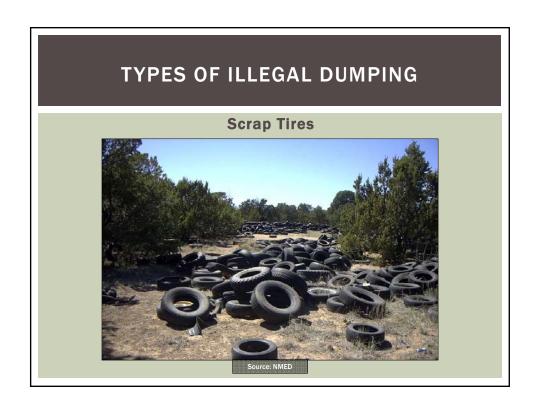




















Habitat/breeding grounds for disease-carrying vectors

Diseases Directly Transmitted by Rats

- Hantavirus Pulmonary Syndrome
- Leptospirosis
- Rat-bite Fever
- Salmonellosis



Diseases Indirectly Transmitted by Rats

- Black Plague
- Colorado Tick Fever
- Cutaneous Leishmaniosis

EFFECTS OF ILLEGAL DUMPING

Habitat/breeding grounds for disease-carrying vectors





Habitat/breeding grounds for disease-carrying vectors

Diseases Carried by Mosquitoes

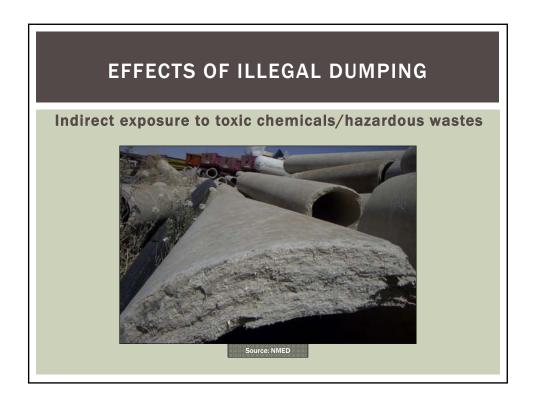
- Dengue Fever
- West Nile Virus
- Encephalitis
- Zika Virus

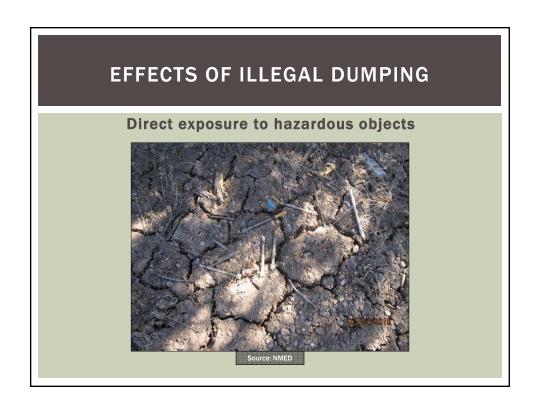


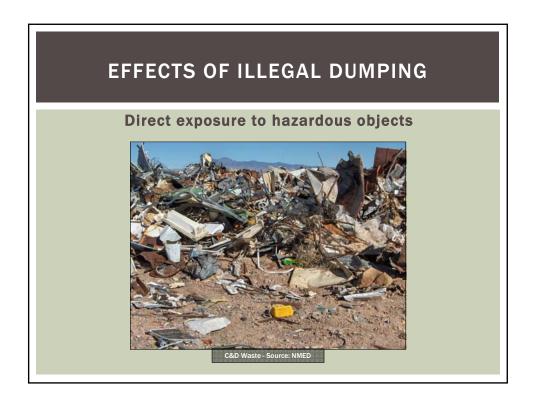
EFFECTS OF ILLEGAL DUMPING

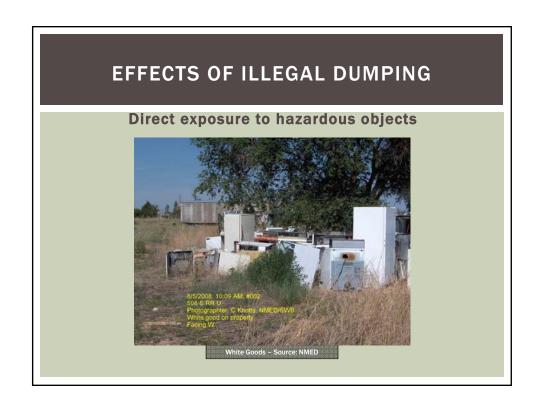
Indirect exposure to toxic chemicals/hazardous wastes











Flooding caused by debris/wastes clogging drainage ditches and waterways

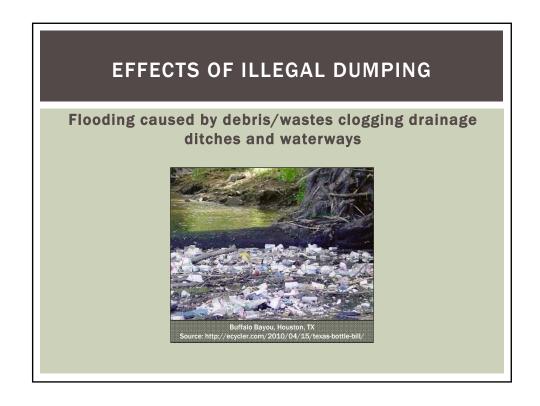


EFFECTS OF ILLEGAL DUMPING

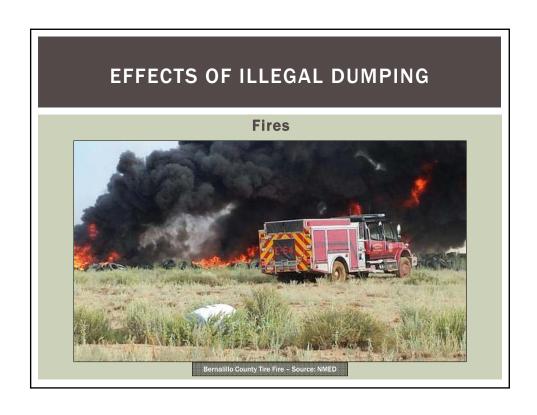
Flooding caused by debris/wastes clogging drainage ditches and waterways



Source: Pima County, AZ (Tucson)

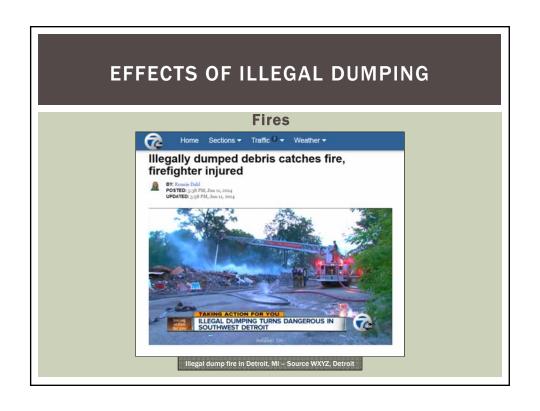


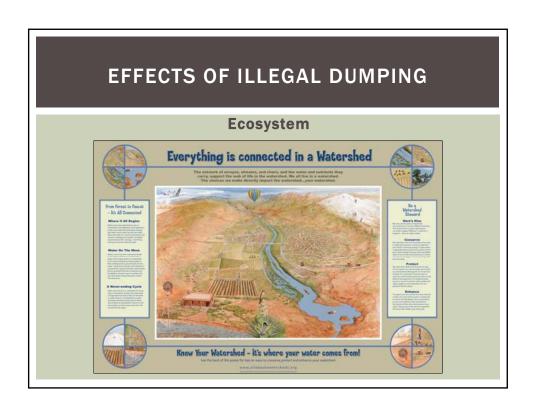


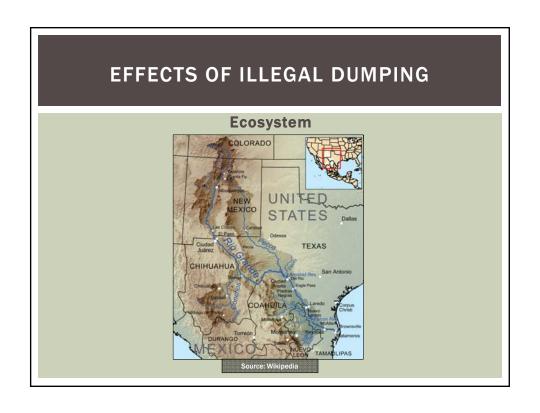


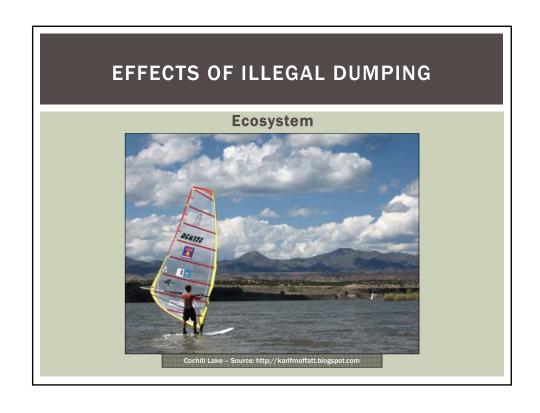


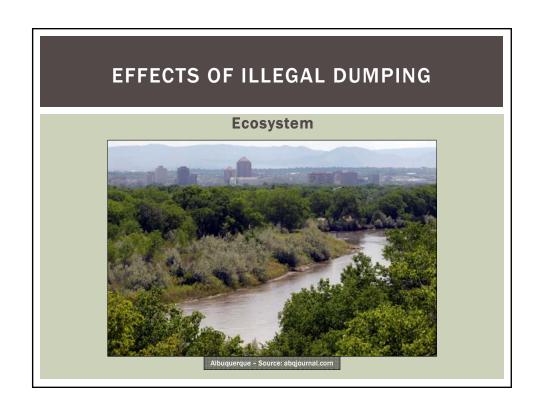


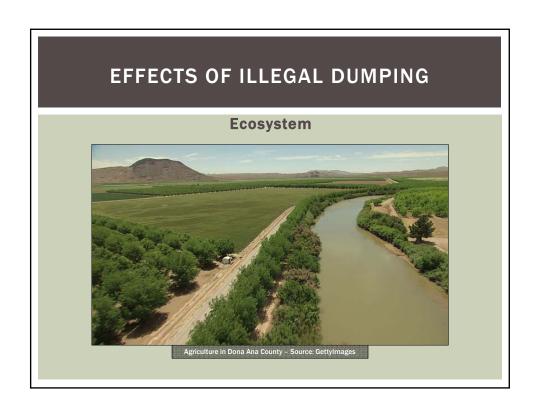


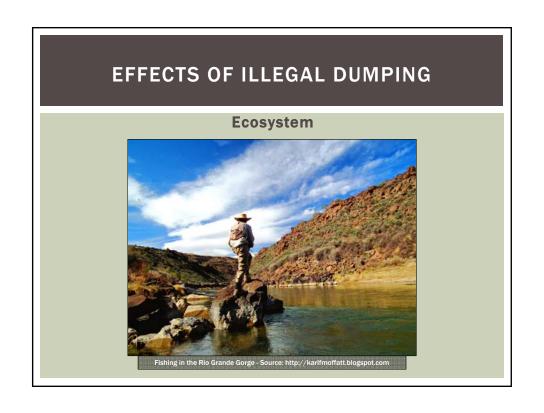


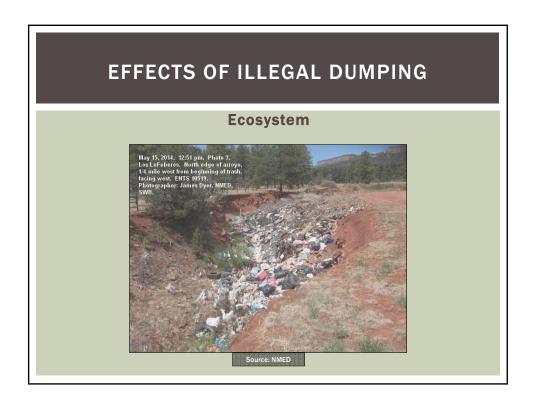


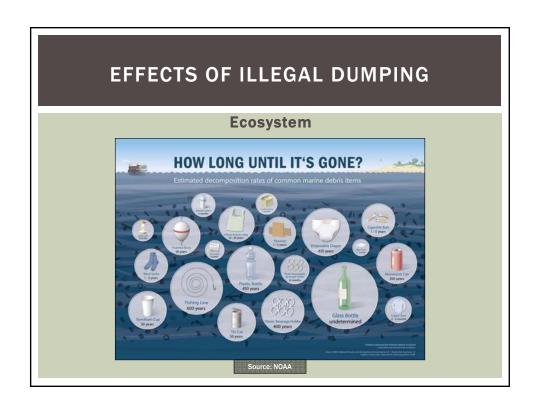






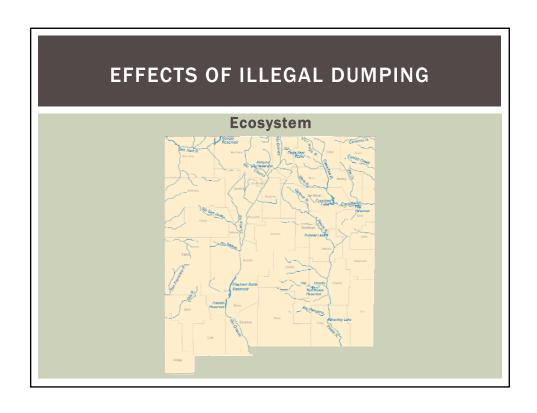
















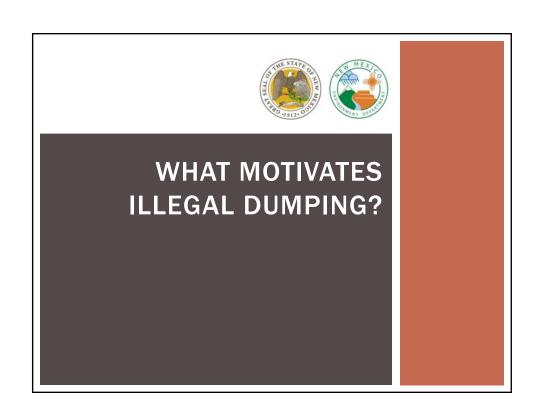
Financial burden on taxpayers and utility ratepayers



Dona Ana County cost of illegal dumping cleanup







WHAT MOTIVATES ILLEGAL DUMPING?

- Avoiding costs
 - Individuals wanting to save money on disposal of furniture, tires, or other items
 - Construction, demolition, remodeling, roofing, or landscaping contractors wanting to save money on tipping fees
- Lack of enforcement
 - Lack of judicial understanding
 - Low fines

WHAT MOTIVATES ILLEGAL DUMPING?

- Inconvenience
 - Some landfills, transfer stations, and recycling centers are too far away or operate at inconvenient hours.
- •Unawareness
 - Some may be unaware or misinformed of solid waste facilities in their community

WHAT MOTIVATES ILLEGAL DUMPING?

- Habit
 - Illegal dumping may be the traditional means of waste disposal for some families and individuals
- Heritage
 - Some "have the right to dump on their own property" as they have been doing for years.
 - Problem! Waste is much more harmful now!



WHERE DOES ILLEGAL DUMPING OCCUR?

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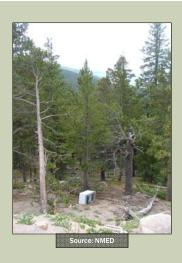
- Unsecured properties
 - Undeveloped lots
 - Abandoned structures
 - Unused industrial facilities
 - Remote spaces
- Poorly lit access roads



- Property along railways, highways and alleys
- Borders of Cities and Counties

WHERE DOES ILLEGAL DUMPING OCCUR?

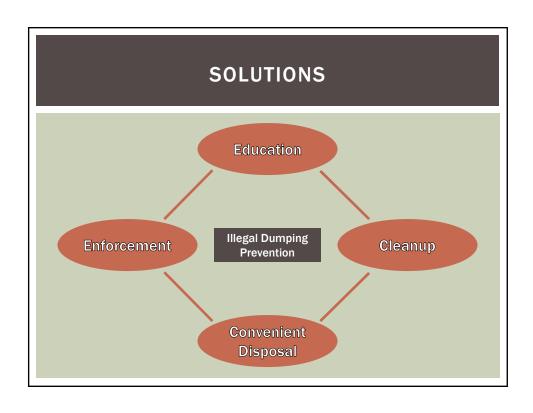
- Construction sites or public areas with waste containers
- Forest preserves and wooded sites
- Farms

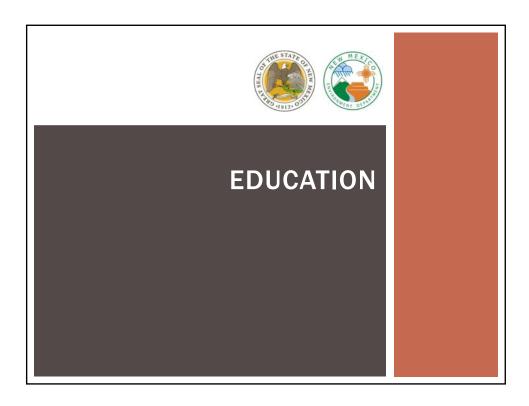




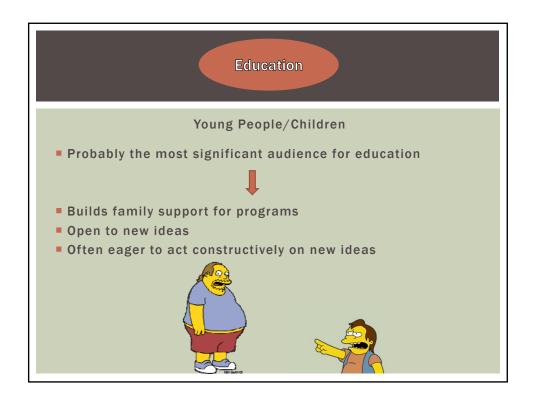


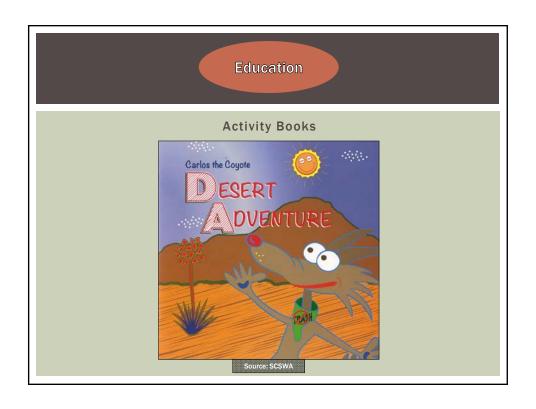


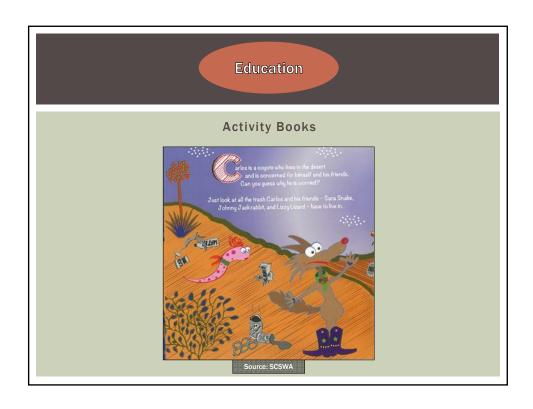


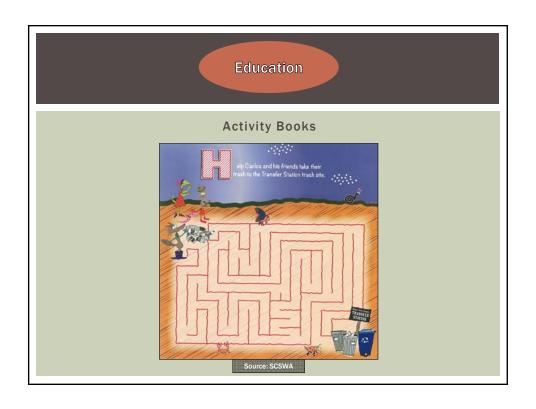


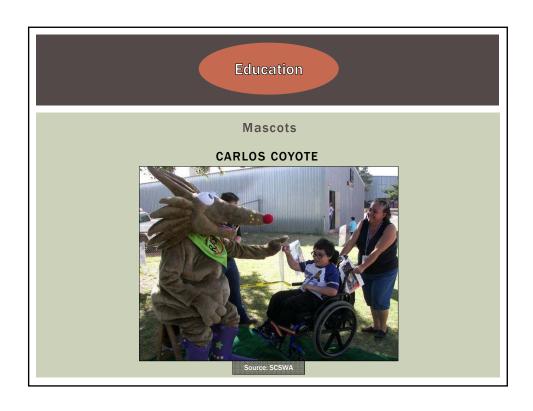
DECISION MAKERS Build consensus among local decision-makers and judges about the importance and value of illegal dumping prevention. Hiring environmental enforcement officers Receiving grant funds Giving presentations at local schools or civic organizations Conducting a community cleanup day Successfully prosecuting a case



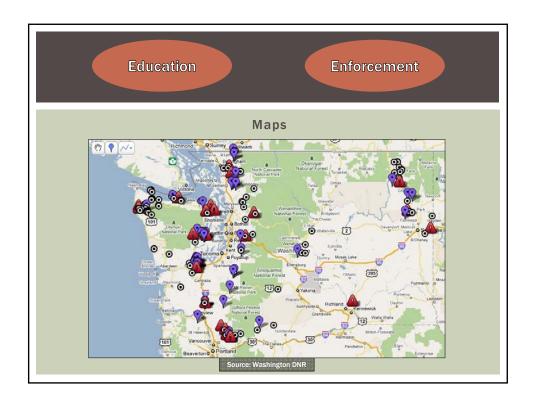






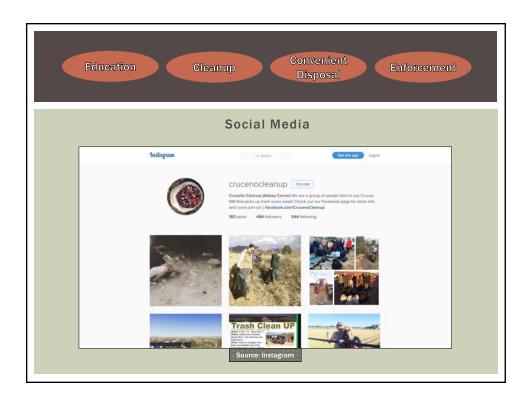


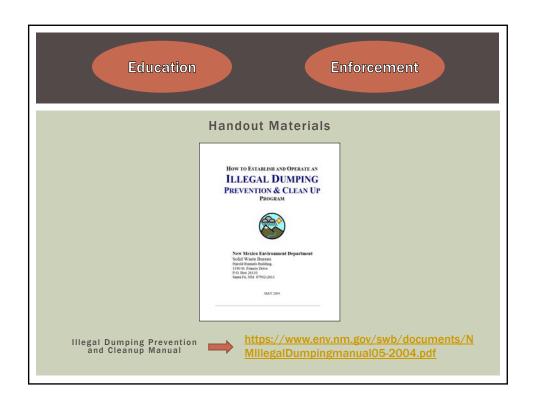


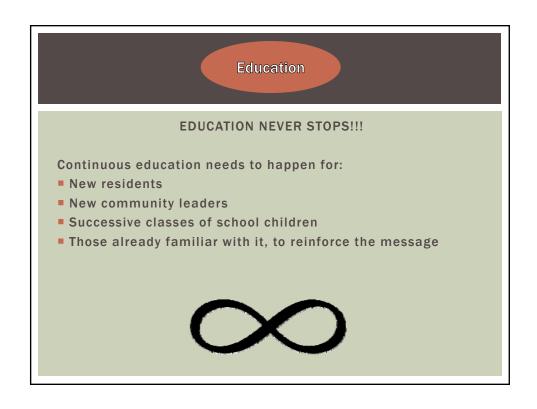
















Convenient disposal



- Operate at convenient hours
 - Most are open Wed-Sun., 8-5.
 - Some can be open less, but make sure to focus operating times on citizen demand.
 - \blacksquare No matter when a facility is open, complaints are going to arise from someone. \boxdot
- Turning people away is discouraged could lead to illegal dumping!!!
 - HOWEVER: make sure that the facility's operations plan is not being violated by accepting unacceptable waste.
 - Be prepared to advise customers on how to properly dispose of waste that is unacceptable at a facility, or have a plan for how to properly accept commonly unacceptable waste, for example......
 - Infectious waste can be contained in an empty bleach/detergent bottle, duct taped and labeled, and legally disposed of in a landfill.

Convenient disposal

- Advertise your transfer station as much as possible!!
 - Government website
 - Community Events/gathering points
 - Community bulletins
 - Newspaper
 - Radio Ads
 - Billing Inserts
 - Fliers
 - Brochures



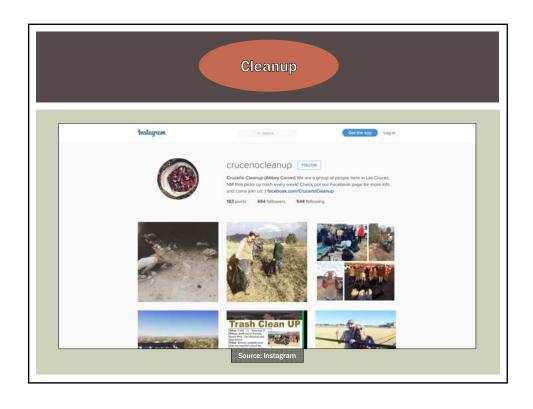
Etc.....

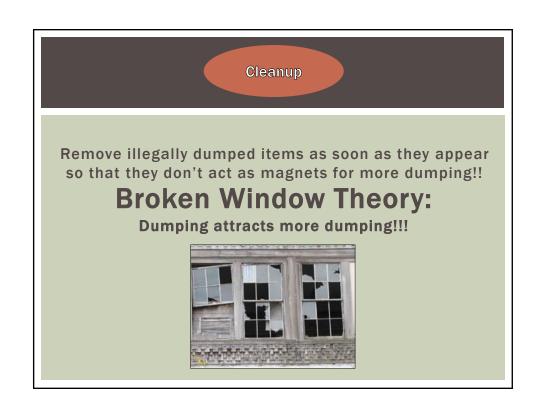


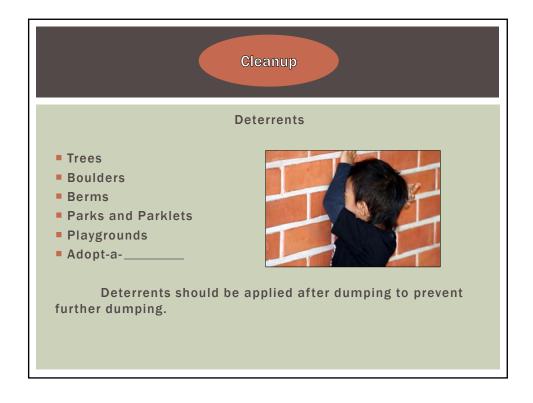




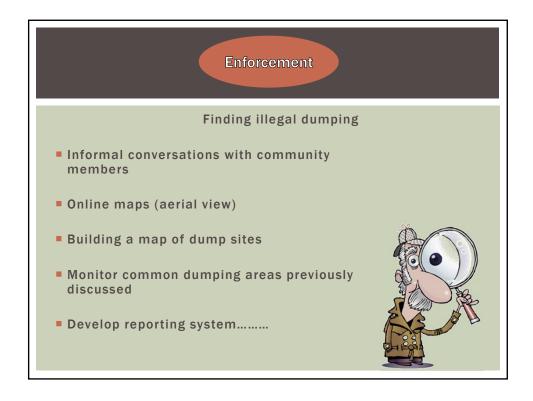


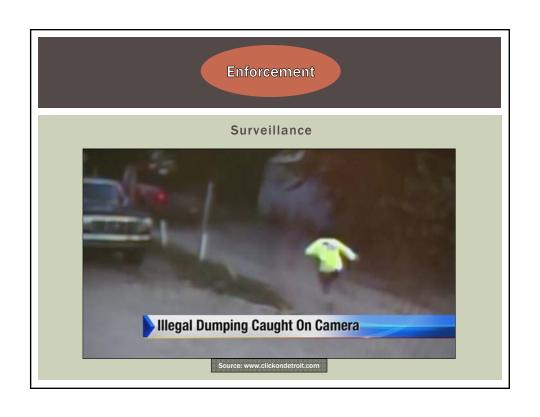


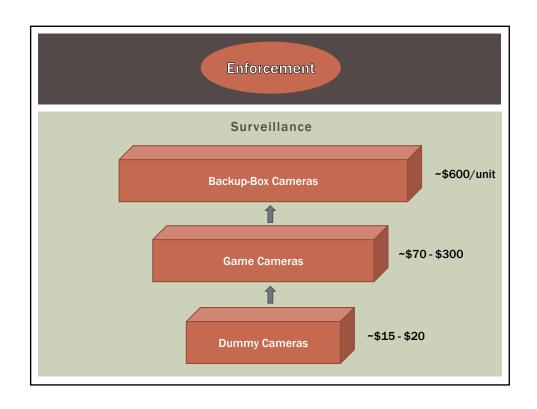


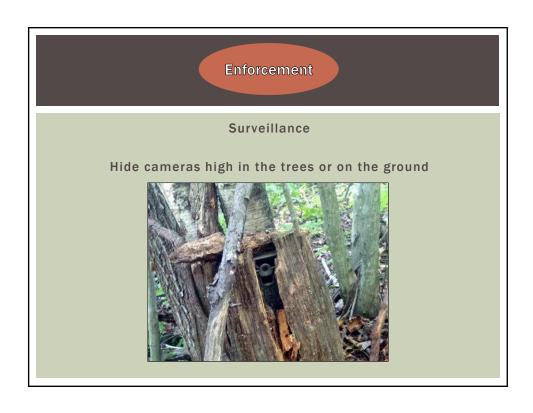
















Investigation

Tribal Police or Environmental/Conservation Officers discover dumping



- If dumping was committed by Tribal member, the matter is investigated by Tribal Police or Environmental officers and sent to Tribal Council and Chief Judge
- If dumping was committed by NON-Tribal member, the matter can be turned over to County or State enforcement officers.
- Per the State Solid Waste Act, Solid Waste Bureau enforcement officers may only request voluntary cleanup and issue a Notice of Violation (NOV)

Enforcement

Investigation

Document Complainant's Information WHO, WHAT, WHEN, WHERE, WHY & HOW?

- Who did it?
- What happened?
- When did it happen?
- Where did it happen?
- Why did it happen?
- How did it happen?
- How many times did it (or how often does it) happen?
- How do you know?



Investigation

- Exactly what did you see?
- What material or substance was involved?
- How much?
- Who owns the property?
- Who resides at the property?
- Who told you about this?
- What other agencies have you notified?
- Are the persons involved dangerous (guns/drugs/mean dogs)?
- May I contact you for more information later?

Enforcement

Evidence Collection

- Use Proper PPE for collection
- Use Proper Containers (Glass, Metal, Plastic)
- When sampling Coordinate with Laboratory regarding Protocol, Holding Times, Preservatives, Temperatures
- Label samples correctly
 - Date, Time, Sampler's/Investigator's Initials, Sample Number, Case Number, Sample Location and Description
- Do not photograph or video tape investigators or staff collecting samples or evidence

Evidence Collection

- Anything and everything can be used in an evidentiary matter, as long as its legally obtained
- All elements of proof should be corroborated. Every element of proof should include two separate items of evidence to substantiate it.



Enforcement

Voluntary Cleanup

- Often the preferred method of enforcement
- Can prevent the fining of community members
- Avoids cleanup costs being placed on the Tribe
- Allow a defined period of time for violator to cleanup



Fines and Penalties

USUALLY.....

- Most first-offense, non-hazardous waste dumping will result in a misdemeanor.
- Penalties can range from up to \$500 for first offense to up to \$500 PLUS jail time for second and subsequent offense.
- For improper or illegal disposal of hazardous materials, a fine could reach \$5000
- Each day a violation is committed can be considered a separate offense, resulting in a possible \$500/per day/per offense fine.

.....BUT IT CAN VARY FROM JURISDICTION TO JURISDICTION



RECYCLING AND ILLEGAL DUMPING GRANTS



