



# ADT

Environmental Solutions LLC

## CASE HISTORY/REFERENCES

### **#1 Client: USCG Astoria, Oregon**

Engineer: Tetra Tech, Inc.  
Contact: Carlotta Cellucci  
Phone: 425-673-3665

Project was located at the Tongue Point facility in Astoria, Oregon. Sandblast materials containing lead, arsenic and chrome had been deposited on an adjacent property. ADT conducted a pilot study on a heavy metal contaminated sandblast grit waste pile on US fish and Wildlife site in Astoria, Oregon. ADT developed a chemical mix design and applied this in an in situ process bringing leachable lead to below LDR for off site shipment as a non-RCRA waste stream.

### ***Raw Sample for Total Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				3,320*					

\* Estimated TCLP value @ 15-50 ppm

### ***Treated Materials for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
				ND					

All Test Results in PPM

**#2 Client: USMC Air Base**

Engineer: BEM Systems, Inc.  
Contact: Greg Butler  
Phone: 816-935-6874  
Prime Contractor: ERI, Inc.  
Contact: Greg Laney  
Phone: 602-757-1994

Project was located in Yuma, AZ. at a former firing range site. ADT provided the application of a stabilization mix, utilizing ex-situ pugmill blending to render the soils non hazardous and suitable for non hazardous landfill disposal. Materials meet LDR standards.

***Raw Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				15 to 30*					

\*higher value

***Treated Materials for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
				0.3 to ND					

All Test Results in PPM

**#3 Client: National Park Service**

Contractor: Americon, Inc.  
Contact: Bruce Bennett  
Phone: 303-443-9503

Project was located near Hot Springs, SD at a former firing range site. ADT provided a chemical stabilization mix, utilizing ex-situ pugmill blending to render the soils non hazardous and suitable for non hazardous landfill disposal. Materials meet LDR standards.

***Raw Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				56.3*					

\*higher value

***Raw Sample for TOTAL Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				197,000*					

\*higher value

***Treated Materials for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
				0.3 to 0.13					

All Test Results in PPM

**#4 Client: Undisclosed**

Engineer: GeoTrans, Inc.  
Contact: Todd Hagemeyer  
Phone: 707-642-1000 x 102

Project was located near Tampa, FL. ADT provided a proprietary stabilization mix, utilizing heavy equipment blending to render the soils non hazardous and suitable for non hazardous landfill disposal. Materials meet LDR standards.

***Raw Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
		27 to 30							

\*higher value

***Treated Materials for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
		ND to .05							

All Test Results in PPM

**#5 Client: Undisclosed**

Sample represented composite of secondary oxidation scrubber ash generated from a county owned solid waste incineration unit. A chemical mix design was developed by ADT to meet LDR for lead rendering the materials acceptable to non hazardous landfill.

***Raw Sample for TCLP Lead***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				52.9					

***Treated Sample for TCLP Lead***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
				0.14					

All Results in PPM

**#6 Client: City of Dallas, TX**

Engineer: LCA, Inc.  
Contact: Charles Baugh  
Phone: 214-724-6250

Project consisted of soils with lead, arsenic and chrome. ADT was engaged to develop a mix design to reduce leachability of target metals to a non hazardous waste status and oversee the remedial activities. A mix design was developed by ADT to meet LDR for the target metals rendering the materials acceptable to non hazardous landfill. The confirmation testing identified that all metals had been treated not only to non hazardous status but were acceptable for Class 2 disposal in TX saving the client additional funds.

***Raw Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
.1		0.044		60.4					

***Raw Sample for Total Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
n/a		n/a		*20,000					

\*higher value

***Treated Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
0.304		0.028		0.472					

All Results in PPM

**#7 Client: Metals Recycling Facility**

Prime Contractor: ADT Environmental Solutions, LLC

Contact: Donna Strobe

Phone: 570-265-9862

Project was located in Towanda, PA. at an operational salvage yard site. ADT provided the application of a chemical stabilization mix, utilizing standard heavy equipment to blend soils rendering the soils non hazardous and suitable for non hazardous landfill disposal. Materials meet LDR standards.

***Raw Sample for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	
				241					

***Treated Materials for TCLP Metals***

Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Zinc	Nickel
				ND					

All Test Results in PPM

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