ESP Remote Sensing Experience

Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
Arizona, USA	Dan Grubbe 602-207-4017 ADEQ Phoenix, AZ	Program Type: Gross emitter identification; on-road HC, CO, and CO ₂ monitoring	1994 – 1998	5M/yr
		Geographic Area Served: Phoenix metropolitan area		
		Inspections: Approximately 500,000 valid records per month		
		Met implementation schedule and contractual obligations.		
California, USA	Joe Pedrosa	Program Type: Program Evaluation; On-road HC, CO, CO ₂ monitoring	1995 – 1997	8M/yr
	916-255-4248 CA BAR	including low and high emitter evaluation		
	Sacramento, CA	Geographic Area Served: Statewide		
		Inspections: Average of 800,000 validated vehicle records per month		
		Met implementation schedule and contractual obligations.		
California, USA	Joe Pedrosa 916-255-4248 CA BAR Sacramento, CA	Program Type: Identify and repair/scrap high-emitting vehicles	1996 – 1997	19M
		Geographic Area Served: Los Angeles		
		area		
		Inspections: 600 vehicles repaired.		
Colorado, USA	Rick Barrett 303-692-3212 CDEHNR Denver, CO	Program Type : Fleet characterization; on-road HC, CO, CO ₂ , NO _x monitoring; enhanced I/M compliance	1996 – 2001	400K/yr
		Geographic Area Served: Greeley, Denver		
		Inspections: >0.5% of I/M fleet		
		Met implementation schedule and contractual obligations five times.		
Colorado, USA	Rick Barrett 303-692-3212 CDEHNR Denver, CO	Program Type : RapidScreen, HC, CO, CO ₂ , NO _X	2001 – present	2M/yr (2004)
		Geographic Area Served: Ft. Collins, Greeley, Denver (2004)		
		Test Goal: RapidScreen up to 35% of I/M annually		
		Meeting implementation schedule. Program in process.		

Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
Connecticut,	Robert Waz	Program Type: Fleet characterization;	1999 – 2001	100K
USA	203-805-6224	on-road HC, CO, CO ₂ , NO _X monitoring; enhanced I/M compliance		
	CT DMV Waterbury, CT	Geographic Area Served: Statewide, enhanced program area		
		Inspections: >0.5% of I/M fleet annually		
		Met implementation schedule and contractual obligations two times.		
Illinois, USA	Mike Hills	Program Type: Fleet characterization;	1998 –	100K
	217-524-9061	on-road HC, CO, CO ₂ , NO _X monitoring; enhanced I/M compliance	present	
	IEPA Springfield, IL	Geographic Area Served: Chicago and East St. Louis, enhanced program area		
		Inspections : >0.5% of eligible vehicle population annually		
		Met implementation schedule and contractual obligations three times.		
Indiana, USA	Mike Worrell 317-232-8218 IDEM Indianapolis, IN	Program Type : Fleet characterization; on-road HC, CO, CO ₂ , NO _X monitoring; enhanced I/M compliance	1999 – present	100K
		Geographic Area Served: IN enhanced program area		
		Inspections: >0.5% of eligible vehicle population annually		
		Met implementation schedule and contractual obligations two times.		
Maryland, USA	Dave Filbert 410-631-4131 Baltimore, MD	Program Type: Fleet characterization;	1996 – 2009	100K
		on-road HC, CO, CO ₂ , NO _X monitoring; enhanced I/M compliance		
		Geographic Area Served: 14-county enhanced program area		
		Inspections : >0.5% of vehicles in each county annually.		
Missouri, USA	Haskins Hobson 573-751-4817 MDR Jefferson City, MO	Program Type : RapidScreen [™] ; on-road HC, CO, CO ₂ , NO _x monitoring	1999 – 2007	5M/yr
		Geographic Area Served: Greater St. Louis Metropolitan Area		
		Inspections: 30% of I/M fleet RapidScreened annually; 4M valid records since 4/2000; ~180K RapidScreened annually		
		Met implementation schedule; contract in process.		

Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
New York, USA	James Symon 518-457-8831 NYSDEC	Program Type: Characterization/Correlation	1996 – 1999	180K
		Geographic Area Served: 9-county enhanced I/M area		
		Inspections: >0.5% of I/M fleet; correlation with NYTEST (IG-240); gross emitter identification; ~100K valid records annually		
		Met implementation schedule and contractual obligations three times.		
Pennsylvania,	Ernie Spittler	Program Type: 0.5% compliance	2001 –	20K
USA	717-565-7510 Harrisburg, PA	Geographic Area Served : Pittsburgh, Philadelphia	present	
	.	Inspections: >0.5% of I/M fleet.		
Taiwan	Philip Lan 01188622773317 ext. 311	Program Type : Fleet characterization; On-road HC, CO, CO ₂ , NO _X monitoring; gross emitter identification	1997 – 2000	500K/yr
	Taipei, Taiwan	Geographic Area Served: Countrywide		
		Inspections: Over 2 million tests through local partners		
		Met implementation schedule and contractual obligations.		
Texas, USA	Jimmy Guckian 512-424-2970 Austin, Texas	Program Type : On-road HC, CO, CO ₂ , NO _x monitoring; gross emitter	2001 – present	5M/yr
		identification		
	,	Geographic Area Served : Dallas-Fort Worth, Houston, El Paso		
		Inspections: Over 5 million raw readings; 100 notifications/month		
		Exceeding customer expectations.		
Studies				
Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
Arizona, USA Phoenix area	Andrew Burnett 512-407-1822	Program Type: Fleet characterization for AZACTS Study under Eastern	2001	40K
	ERG	Research Group		
	Austin, TX	Met implementation schedule. Data delivered 10/01.		

Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
California, USA Sacramento area	Joe Pedrosa 916-255-4248	Program Type: Large-scale demonstration	1994	300K
El Segundo area	CA BAR Sacramento, CA	Program Type : Three-phase feasibility study	1991 – 1993	200K
Los Angeles area		Program Type : NO _x and speed/acceleration measurement optimization and field study	1994 – 1996	100K
Sacramento area		Program Type : On-road HC, CO, CO ₂ monitoring; technology demonstration	1994	200K
		Met implementation schedule and contractual obligations.		
Idaho, USA		Program Type: Feasibility study	1995	50K
		Geographic Area Served: Boise area		
		Met implementation schedule and contractual obligations.		
Missouri, USA	Wendy Vit Mid-America Regional Council	Program Type : Fleet characterization for Mid-America Regional Council (MARC)	1998	80K
	816-474-4240	Geographic Area Served : Kansas City, Missouri		
	ESP was contracted by the prime - ERG, Austin, TX	Met implementation schedule and contractual obligations.		
New Jersey, USA		Program Type: Identification of gross emitters and correlation with fixed testing	1996	100K
		Geographic Area Served: Trenton area		
		Met implementation schedule and contractual obligations.		
New York, USA	P.R Shanker NYCDEP	Program Type : Fleet characterization; on-road HC, CO, CO ₂ monitoring; commuter polluters	1998	150K
	718-595-3791	Geographic Area Served : New York City/Manhattan		
		Met implementation schedule and contractual obligations.		
Pennsylvania, USA	Paul Durkin Sunoco	Program Type: Identify gross-polluting vehicles for retirement program	1993	200K
	215-977-3401	Geographic Area Served: Philadelphia metropolitan area.		

Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
Texas, USA El Paso		Program Type: Comparison of United States and Mexico vehicle fleets; On- road HC, CO, CO ₂ monitoring	1994	70K
Dallas/Fort Worth/		Program Type: Feasibility study	1996	150K
El Paso Houston		Program Type : On-road HC, CO, CO ₂ monitoring	1996	
		Met implementation schedule and contractual obligations.		
Vermont, USA	Tom Moye, David Love 802-241-3554	Program Type : Fleet characterization, On-road monitoring of CO, CO ₂ , hydrocarbons, and NO _X	1998 – 2000	100K
	Waterbury, VT	Geographic Area Served: Statewide		
		Met implementation schedule and contractual obligations.		
Virginia, USA	Richard Olin 804-698-4425 VDEQ Richmond, VA	Program Type : Fleet characterization, on-road monitoring of CO, CO ₂ , hydrocarbons, and NO _x ; identification of non-program vehicles	1996	270K
		Geographic Area Served: Northern Virginia		
		Met implementation schedule and contractual obligations.		
Virginia, USA	Richard Olin 804-698-4425 VDEQ Richmond, VA	Program Type : Fleet characterization, reference I/M program evaluation	2002 – 2003	1M
		Geographic Area Served: Northern Virginia and Richmond		
		Met implementation schedule and contractual obligations.		
Washington DC, USA	Charles Williams DC DOH	Program Type : On-road monitoring of CO, CO ₂ , NO _X and hydrocarbons	2002	30K
	Washington DC, USA	Geographic Area Served: Metro DC		
Austria St. Michael	Walter Nissler 011-43-6644-465- 001 BPA, Vienna, Austria	Program Type: Fleet characterization, On-road monitoring of CO, CO ₂ ,	2001	1K HDD Trucks
		hydrocarbons, and NO_X from HD Euro trucks		
		Met implementation schedule and contractual obligations.		
Austria/Czech Border	Walter Nissler 011-43-6644-465- 001	Program Type: Measurement of Czech tourist buses entering Austria	2001	20K
	BPA, Vienna, Austria			

Studies				
Location	Contacts	Project Scope/Capability	Contract Duration/ Unit Sales	Approximate Raw Tests
Japan	Akihiro Misumi 011-81-43-295- 2256 Petroleum Energy Center	Program Type : Fleet characterization, on-road monitoring of CO, CO ₂ , hydrocarbons, and NO _x	2000 – present	40K
Mexico Tijuana	Chiba, Japan Lenora Bohren Colorado 907-669-6192	Program Type: Gross emitter of Mexican vehicles into U.S. Met implementation schedule and contractual obligations.	1997	50K
UK Manchester	Mike Charity 01147712740392 Manchester, UK	Program Type: Pullover screening of gross emitters with UK Vehicle Inspectorate Met implementation schedule and contractual obligations.	2001	30K
Sri Lanka, Colombo	Ananda Mallawatantri amallawantantri@ usaid.gov USAID-USAEP Colombo, SL	Program Type : Fleet characterization, pre-I/M baselining.	2003	100K
Singapore	Nick Tan National Environment Agency	Program Type: Pilot study	August 2003 – present	70K
India	Balraj Bhanot Automotive Research Association of India	Program Type: Pilot study	Present	20K