

FY05 Year-End Annual Report  
for the  
MassDEP/US EPA Region I  
Environmental Performance Partnership Agreement: 2005-2006

Massachusetts Department of Environmental Protection  
1 Winter Street  
Boston Massachusetts 02108

April 14, 2006

## Goal 1: Clean Air

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	Milestones
<p><b>Emission Reduction</b></p> <ul style="list-style-type: none"> <li>• Ozone</li> <li>• Fine particulates, air toxics</li> <li>• CO2</li> <li>• Other criteria pollutants</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct compliance monitoring activities at power plants</li> <li>• Employ risk-based targeting of inspections and enforcement</li> </ul>	<p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Oversee CEM and stack test reporting for NOx Allowance Trading Program (310 CMR 7.27 and 7.28) (Part 75 sources)</li> <li>• Conduct inspections, review compliance reports, monitoring reports and stack tests and take appropriate follow up enforcement action at air operating permit and other stationary air sources</li> <li>• Support Regional Implementation of Air Quality National Compliance Monitoring Strategy Including Air Compliance Evaluations: negotiate with EPA on requirements, facilitate statewide consistency by provide guidance/training to regions, track accomplishments <i>Ongoing</i></li> <li>• Facilitate/monitor State-Wide High Priority Violator Identification (Air pollution sources) and Significant Non Compliance (hazardous waste sources) per EPA grant commitment <i>Ongoing</i></li> <li>• Routine Regulatory Reporting Implementation for Stage II Facilities (Universe Identification, report receipt, systems management, data entry, report review and enforcement) <i>Ongoing</i></li> </ul> <p><b>Data Systems Development</b></p> <ul style="list-style-type: none"> <li>• CDX - AQ information management project, development of electronic Source Registration forms, and development of new Stationary Source Emissions Inventory data</li> </ul> <p><b>Permitting</b></p> <ul style="list-style-type: none"> <li>• Support Implementation of Nitrogen Oxides Allowance and Trading Program (310 CMR 7.27</li> </ul>	<ul style="list-style-type: none"> <li>• Oversee approximately 120 Stack tests <i>DID 116</i></li> <li>• Conduct approximately 60 inspections of air operating permit sources and approximately 60 inspections of RES sources and several hundred inspections of small air <i>sources (Did 67 air operating permit inspections issued 8 Higher Level (HLE) and 30 Lower Level (LLE) enforcement actions, 73 RESM80 inspections issued 6 HLE and 39 LLE, 230 minor air sources and 140 air sources below the “reporting threshold” issued 53 HLE and 176 LLE actions NOTE: air enforcement is often based on review of reported information rather in addition to inspection)</i></li> <li>• Review over 1500 compliance and stack test reports from air operating permit and RES sources <i>Done</i></li> <li>• Complete the CDX – AQ and new stationary source emissions inventory system by Winter 04-05 <i>CDX node operational January 06 still resolving some bugs. Stationary Source Inventory System operational February 06</i></li> <li>• Issue the approximately 20 “proposed” and propose and, to the extent feasible, issue, the 10 “draft” active Air Operating Permits that remain to be issued. (Manage the 16 Air Operating Permit renewals that come due this year (<i>Took action on 20 Air Operating Permits and Renewals, 3 are on hold</i>))</li> <li>• Issue approximately 150 other air quality plan approvals (<i>Took action on 205</i>)</li> </ul>

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		<p>and 7.28): overseeing stack testing, reviewing RATA data certifying accuracy of emissions data, allocating allowances</p> <ul style="list-style-type: none"> <li>• Implement NOx public benefit set aside requirements by reviewing applications from energy facilities to ensure that they have earned the allowances for which they are applying</li> <li>• Issue and renew air operating permits and other plan approvals per DEP and EPA regulations</li> <li>• Air quality modeling for the Facility Based Impact Risk Evaluation at new solid waste management facilities <i>Ongoing as needed</i></li> </ul> <p style="text-align: center;"><b>Regulation and Policy Development</b></p> <ul style="list-style-type: none"> <li>• Support Department of Energy Resources Biomass as a fuel source policy development (Commissioner's Priority)</li> <li>• Promulgate Opacity Regulations and Limited Plan Approval regulations</li> <li>• Beyond ERP <ul style="list-style-type: none"> <li>○ Engines and Turbines Project: promulgate regulations and develop presence strategy</li> <li>○ Biotech Project: Air Quality regulations and permit standards</li> <li>○ Stage II Project: implementation -- conduct new inspections, outreach, enforcement strategy to implement new outreach and oversight strategy and coordinate implementation with regional offices</li> </ul> </li> </ul> <p><b>Reporting</b></p> <ul style="list-style-type: none"> <li>• Manage routine regulatory reporting requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Complete final engines and turbines rules by Winter 04-05 <i>Regulations promulgated September 05</i></li> <li>• Complete opacity regulations by Fall 04 <i>Public hearing held October 2005 expect promulgation Spring 06</i></li> </ul>

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		and associated data systems development & management activities for air (Stationary Source Emissions Inventory System SEISS, and submit compliance and enforcement data to EPA) <i>Ongoing</i>	
<p><b>Ozone and Particulate Matter Attainment Planning</b></p> <ul style="list-style-type: none"> <li>• Performance standards for fuels, consumer products, stationary sources, vehicles</li> <li>• Permits for stationary sources</li> <li>• Inspections, emissions testing, audits, and report review for stationary and mobile sources</li> <li>• Follow-up enforcement</li> <li>• Transportation planning to minimize vehicle miles traveled</li> </ul>	<ul style="list-style-type: none"> <li>• Work with MA DEP on development of 2002 ozone inventories, modeling and control measures which will make up the state’s ozone attainment demonstration, which will be due in 2007</li> <li>• Work with MA DEP to develop PM2.5 emission inventories</li> <li>• Conduct outreach on the PM2.5 standard and communicate EPA’s PM2.5 implementation rule</li> <li>• Work on local particulate matter programs (diesel retrofits, etc.)</li> <li>• Continue to work with MA DEP to assure that PM2.5 data is complete and entered into AQS</li> <li>• Complete the PM2.5 nonattainment designation by December 2004</li> <li>• Support implementation of new NOx and SO2 emission standards for power plants</li> </ul>	<p><b>Environmental Quality Assessment</b></p> <ul style="list-style-type: none"> <li>• Use results of Mobile 6 Model to develop mobile source budget in conformance with the SIP</li> <li>• Run Mobile 6 model to develop mobile source inventory for the State Implementation Plan</li> <li>• Maintain MOBILE6 documentation and upgrades</li> </ul> <p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Develop implementation policies and procedures for implementing the Ozone Transport Commission's multi-pollutant strategy within the region, resulting in further emission reductions from the regional NOx allowance sources; assess impact on MA sources.</li> <li>• Coordinate with and provide input to Department of Energy Resources and NE-ISO on energy policy for CO2 and NOx controls <i>Ongoing</i></li> <li>• Prepare and submit to EPA a Mid Course Review for Eastern Massachusetts 1-hour Ozone implementation plan per EPA grant commitment</li> <li>• Perform ozone screening modeling to evaluate alternative state and/or regional emission reduction strategies to assess likelihood of attaining the 8 hour ozone standard, consistent regional work plan</li> <li>• Support the Ozone Transport Commission Modeling Committee in developing SIP quality modeling program</li> </ul>	<ul style="list-style-type: none"> <li>• Run Mobile 6 during 2004 – 2005 <i>Model run</i></li> <li>• Develop Ozone Transport Commission multi-pollution strategy during 2004 – 2005 <i>Ongoing</i></li> <li>• Complete the Eastern MA 1-hour ozone mid-course review <i>was submitted 12/23/04 and approved by EPA 9/05.</i></li> <li>• Perform Ozone screening modeling during 2005 – 2006 <i>Ongoing</i></li> <li>• Support the Ozone Transport Committee’s development of a SIP quality modeling program during 2004 –2005 <i>Ongoing</i></li> <li>• Revise the 2002 emissions inventory during 2004-2005 <i>Draft to EPA summer 05</i></li> <li>• Develop MA specific growth factors for NOx, VOC and PM 2.5 inventories by the end of 2004 <i>Done</i></li> <li>• Develop Architectural Coating, and Consumer Product Regulations in 2005 <i>postponed per OTC to FFY06</i></li> <li>• Develop Gas Can Regulations in 2005 contingent upon California finalizing revisions to its container specifications <i>postponed per OTC to FFY06</i></li> </ul>

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		<ul style="list-style-type: none"> <li>• Revise the MA 2002 NOx, VOC, and PM2.5 emissions inventories (Base year for SIP purposes) in response to EPA QA; review and update, as necessary, the MA 2002 NOx, VOC and PM2.5 modeling emissions inventory; document inventory preparation for submission to EPA</li> <li>• Develop MA-specific growth factors for the NOx, VOC, and PM2.5 emissions inventory, consistent with regional efforts and for use in 8-hour ozone, Regional Haze, and PM2.5 SIP modeling</li> <li>• Serve as State's Designated Air Pollution Control Official on the Ozone Transport Commission (OTC) <b>Ongoing</b></li> <li>• Coordinate quarterly MA State Implementation Plan (SIP) Steering Committee Meetings) <b>Ongoing</b></li> <li>• Develop comments on EPA's proposed rules and guidance affecting ozone attainment and assure that MA positions are appropriately represented in comments prepared by other regional and national organization in which MA is a member) <b>Ongoing</b></li> <li>• Develop position and provide comments on EPA's PM2.5 standards revision <b>Submit through NESCAUM in April 2006.</b></li> <li>• Review EPA rules regarding PM2.5 attainment in order to ensure that MA interests are adequately protected. <b>Done</b></li> <li>• Develop architectural coatings, consumer product and gas container rules for 8-hr ozone SIP, consistent with MA commitment to Ozone Transport Commission due July 05 <b>Postponed pending OTC review.</b></li> <li>• Participate in the Ozone Transport Commission's Best Available Control Technology/Lowest</li> </ul>	

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		Achievable Emission Rate policy development initiative (per Commissioner priority) <b>Ongoing</b> <ul style="list-style-type: none"> <li>• Represent the MA Air Program on the Northeast States for Coordinated Air Use Management (NESCAUM) and its "sister" research organization, NESCCAF (Northeast Center for Clean Air Futures) <b>Ongoing</b></li> </ul>	
	<b>Haze</b> <ul style="list-style-type: none"> <li>• Participate in the regional planning organization MANE VU charged with the development of the regional haze strategy</li> </ul>	<b>Haze</b> <b>Environmental Quality Assessment</b> <ul style="list-style-type: none"> <li>• QA/QC the MA portion of the 2002 regional haze inventory for MANE-VU (a regional air planning authority mandated by the Clean Air Act)</li> <li>• Support the development of a regional haze air quality model by MANE-VU</li> </ul> <h3>Program Development and Evaluation</h3> <ul style="list-style-type: none"> <li>• Serve as State’s Designated Air Pollution Control Official to the Mid-Atlantic-Northeast Visibility Union (MANE-VU)Ambient Air Quality: Make real time and long term air quality data available to the public <b>Ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>• Work with MANE-VU to develop the haze inventory and haze model during 2004 – 2005: <b>Drafts done in 05, undergoing revisions</b></li> <li>• QA/QC MA portion of the 2002 haze inventory in 2004 <b>Done</b></li> </ul>
	<b>Forecasting</b> <ul style="list-style-type: none"> <li>• Continue to issue press releases and smog alerts warning of elevated ozone levels and elevated levels of fine particles when appropriate (the smog alert service currently notifies 2,000 interested organizations)</li> </ul>	<b>Forecasting</b> <h3>Environmental Quality Assessment</h3> <ul style="list-style-type: none"> <li>• Calculate and post on the MA website the daily Air Quality Index for ozone (seasonal May-Sept.) and for PM 2.5 (annual) <b>Ongoing</b></li> <li>• Communicate daily air quality forecast to public</li> </ul>	

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	<p>and individuals of predicted poor air quality via fax or e-mail)</p> <ul style="list-style-type: none"> <li>Continue to assist the NE states with their ozone and fine particle forecasting efforts and to produce the daily ozone forecast map for the NESCAUM states. Outreach to the media will be done to promote the use of air quality forecasts in newspapers and on television.</li> <li>Conduct a workshop on air quality outreach and forecasting for the New England states</li> </ul>	<p>through media and website <i>Ongoing</i></p> <ul style="list-style-type: none"> <li>Provide EPA air quality data and daily pollutant predictions for the Air NOW website and maps of ambient ozone and PM2.5 air concentrations</li> <li>Prepare and publish the Annual Air Quality Report and post it on the DEP website <i>Ongoing</i></li> </ul>	
<b>Inspection &amp; Maintenance Program</b>	<ul style="list-style-type: none"> <li>Continue to work with the DEP assist with implementation of the I/M program</li> </ul>	<p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>Oversee equipment audits by contractors, conduct equipment audits auditing each station at least once during the year</li> <li>Manage emissions waiver program: work jointly with the RMV to issue passing waivers to motorists who have reached the expense threshold</li> <li>Oversee the I &amp; M Network Contractor</li> <li>Support Registry of Motor Vehicles field staff who enforce the testing requirements <i>Ongoing</i></li> </ul> <p style="text-align: center;"><b>Permitting</b></p> <ul style="list-style-type: none"> <li>Oversee initial certification and biennial recertification of inspectors by contractor</li> </ul> <p><b>Grants/Loans/Technical Assistance/Outreach</b></p> <ul style="list-style-type: none"> <li>Respond to and resolve consumer and station</li> </ul>	<ul style="list-style-type: none"> <li>Oversee 1,600 equipment audits by contractors <i>Done</i></li> <li>Conduct 150 equipment audits <i>Done</i></li> <li>Oversee 1,700 covert vehicle audits by contractor <i>Done</i></li> <li>Oversee 750 covert visual audit by contractor <i>Done</i></li> <li>Assist the Registry with the issuance of waivers to qualifying vehicles and denial of waivers to non-qualifying vehicles (estimate 350 waivers may be needed) <i>Done</i></li> <li>Oversee initial certification and biennial recertification of inspectors by contractor (estimate 1,500 inspectors newly certified annually, and 5,000 inspectors recertified biennially) <i>Done</i></li> </ul>

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		<p>complaints and questions <i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Communication for Enhanced Inspection and Maintenance Program <i>Ongoing</i></li> <li>• Oversee initial and refresher training for inspectors <i>Ongoing</i></li> <li>• Publish quarterly repair technician newsletter <i>Ongoing</i></li> </ul> <p style="text-align: center;"><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Improve inspection and maintenance testing equipment and software</li> <li>• Evaluate need for, and begin, if necessary, RFR for the next I&amp;M program <i>Ongoing</i></li> <li>• Equipment effectiveness evaluation: Start up the IM240 Test laboratory</li> <li>• Maintain Advisory Committee and subcommittees</li> </ul> <p style="text-align: center;"><b>Public Information</b></p> <ul style="list-style-type: none"> <li>• Provide Information to the general public on the I&amp;M program <i>Ongoing</i></li> <li>• Update and Publish Registered Repairer repair report card <i>Ongoing</i></li> </ul> <p style="text-align: center;"><b>Reports to EPA</b></p> <ul style="list-style-type: none"> <li>• Prepare and submit annual report to EPA mandated by federal I&amp;M regulations (Biennial report not due until 2006) <i>Annual reports submitted</i></li> </ul>	<ul style="list-style-type: none"> <li>• Start up IM240 lab by July 1, 2005 <i>On-hold</i></li> <li>• Conduct semi-annual Advisory Committee meetings 2005 <i>Done</i></li> <li>• Oversee the updating and publishing of the Registered Repair Facility report card quarterly by contract 2005 <i>Done</i></li> <li>• Oversee the quarterly publication of the program newsletter by contract 2005 <i>Done</i></li> <li>• Oversee the replacement and upgrade of workstations by contractor by February 26, 2005 <i>Done</i></li> <li>• Evaluate compliance of contractor with contract performance standards monthly 2005 <i>Done</i></li> <li>• Prepare annual Interagency Service Agreement for execution with the Registry for IM program funding at DEP by IM Trust 2005 <i>Done</i></li> </ul>

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<p><b>Mobile Source Air Pollution Control</b></p> <p>Transportation Control Measures</p> <p>LEV</p>		<p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• LEV Compliance Assurance: <ul style="list-style-type: none"> <li>○ Automobile purchaser assistance</li> <li>○ Dealer oversight and assistance</li> <li>○ Train, support RMV Registrations staff</li> </ul> </li> <li>• Assure LEV and ZEV Compliance by reviewing automobile manufacturer data on fleet mix and advanced technology vehicles placed in MA</li> <li>• Implement flexibility within the Zero Emission Vehicle mandate with CA and other states to maximize the placement of advanced technology vehicles in MA by reviewing auto manufacturer's proposed plans for compliance</li> <li>• Reporting: Rideshare compliance and enforcement</li> <li>• State (Massport) and Municipal Parking Freezes: Parking Freeze compliance assurance</li> <li>• Big Dig Mitigation: <ul style="list-style-type: none"> <li>○ Review transportation agencies' (EOT/Mass Highway, MBTA, Massachusetts Turnpike Authority) projects for compliance with regulations and enforcement actions</li> <li>○ Review Mass Highway Department's study of the air quality benefits of the High Occupancy Vehicle Lane to ensure air quality benefits are met.</li> <li>○ Implement vent certification process under DEP/EOTC Vent cert regulation.</li> </ul> </li> <li>• Transportation Conformity: Review and concur with metropolitan planning organizations annual transportation plans and/or programs.</li> </ul>	<ul style="list-style-type: none"> <li>• Respond to routine consumer inquiries to determine if vehicles can be registered in MA <b>Ongoing</b></li> <li>• Review fleet mix data from 25 manufacturers by May 05 2005 <b>Done</b></li> <li>• Review ZEV compliance plans from approx. six manufacturers by Sept 05 2005 <b>LEV Reg. revised late 2005 and ACPs will be submitted to DEP in January 2006</b></li> <li>• Provide updates to RMV on changes to LEV regulations to ensure only CA certified vehicles are registered in MA <b>Ongoing</b></li> <li>• Review rideshare reports from approx. 300 facilities, and take appropriate follow up enforcement <b>Done</b></li> <li>• Ensure parking freeze compliance in Boston, Cambridge, and Logan Airport <b>Done</b></li> <li>• Review of the HOV lane air quality benefits completed by within 3 months after submission by MHD 2005 <b>Quarterly reports submitted by MHD and reviewed</b></li> <li>• Review and approval of 13 regional planning agencies' annual transportation control plans and/or programs <b>Done</b></li> <li>• Complete MEPA reviews for major projects as necessary (note that we have mostly disinvested in the activity) <b>Done</b></li> <li>• Adopt CA green house gas rule by end of 2005 – <b>reg. effective on 12/30/05</b></li> <li>• Develop ZEV compliance flexibility by June 05 <b>Reg. final 12/05</b></li> <li>• Develop Tunnel Vent Cert. Regulations Revisions (310 CMR 7.38) by June 05 <b>Reg</b></li> </ul>

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		<p style="text-align: center;"><b>Permitting</b></p> <ul style="list-style-type: none"> <li>• MEPA Reviews of transportation related impacts</li> </ul> <p><b>Regulation and Policy Development</b></p> <ul style="list-style-type: none"> <li>• Develop CA Greenhouse Gas Rule for cars/trucks, (unclear if we're doing this – omit), ZEV compliance flexibility</li> <li>• Revise Tunnel Vent Certification Regulations (310 CMR 7.38) to update monitoring protocols</li> <li>• Big Dig Mitigation: Conduct public process to review, and as necessary revise outstanding transportation agency commitments</li> </ul>	<p><i>final 12/05</i></p> <ul style="list-style-type: none"> <li>• Decision on Big Dig mitigation changes by Spring 05 <i>Draft proposed Fall 2005, public hearing scheduled for 12/17/05</i></li> </ul>
<b>Green House Gases</b>	<ul style="list-style-type: none"> <li>• Provide funding support for states and NEG/ECP climate change action plan</li> <li>• Oversee \$65,000 grant to New England Governors Conference to assist in administration of Climate Change Action Plan</li> <li>• Oversee \$25,000 grant to Institute for Sustainable Energy for assistance in training state officials on use of EPA's building benchmarking tool for energy performance</li> <li>• Assist Massachusetts communities (including Amherst, Brookline, Cambridge, Lowell, Somerville) on the benchmarking of energy</li> </ul>	<p style="text-align: center;"><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Develop Greenhouse Gas strategy under the direction of the Commissioner's Office and Office of Commonwealth Development, and in cooperation with interstate air pollution control agencies</li> <li>• Participate in the development of Regional Green House Gas Registry through NESCAUM, including stationary CO2 source inventory work</li> <li>• Decide whether and if so how to implement the CO2 control provisions in 310 CMR 7.29</li> <li>• Participate in the Regional Greenhouse Gas Initiative by leading the developing a model rule that would establish a regional Greenhouse Gas cap and allowance program for power plants</li> </ul>	<ul style="list-style-type: none"> <li>• Decision on implementing CO2 controls by Fall 2004 <i>Draft Regulations proposed Fall 2005</i></li> <li>• Develop model rule for regional Greenhouse Gas cap and allowance program for power plants by April 2005 <i>Model Rule adopted by seven states December 2005 (MA did not sign)</i></li> </ul>

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	performance of school and municipal buildings <ul style="list-style-type: none"> <li>• Promote Energy Challenge to Performance Track facilities in MA (seek commitment to reduce greenhouse gas emissions)</li> <li>• Provide \$30,000 grant to Massachusetts Climate Network of municipalities to promote greenhouse gas reductions</li> </ul>		
<b>Diesel</b>  DEP, EPA and local Boards of Health employ a mix of approaches to controlling diesel pollution including regulatory standards, control equipment testing, fuel and control equipment standards, public information, enforcement of idling regulations and incentives.	<ul style="list-style-type: none"> <li>• Oversee \$483,000 grant to the City of Medford to retrofit 54 school buses with diesel particulate matter filters &amp; fuel the fleet of 65 buses with ultra low sulfur diesel fuel (ULSF), for use in Medford and 13 neighboring communities</li> <li>• Oversee SEP for diesel engine retrofits on school buses in Boston</li> <li>• Identify and negotiate new SEPs for retrofits/cleaner fuels for diesel engines</li> <li>• Oversee SEP for lower sulfur diesel and retrofit MBTA commuter locomotive engines</li> <li>• Manage \$64,000 to the City of Boston to work with the</li> </ul>	<ul style="list-style-type: none"> <li>• Promulgate and Implement new performance standards for small diesel engines at stationary sources (“distributed generation”)</li> <li>• Continued implementation of heavy duty vehicle emissions I&amp;M program</li> <li>• Continued implementation of Best Management Practice (BMPs) and require retrofits for landfills, wastewater treatment plants funded by the state revolving loan fund, and construction equipment used on the Central Artery/Third Harbor Tunnel</li> <li>• Continued effort to prevent truck idling at truck stops and other locations</li> <li>• Continued work with individual school bus companies, and school bus company trade associations to implement anti-idling programs and conduct Inspections and follow up enforcement actions</li> <li>• Beyond ERP: HIHV School bus Idling: inspect and take appropriate enforcement actions against school buses that violate the anti-idling rules</li> <li>• Develop an action plan for further controlling diesel</li> </ul>	<ul style="list-style-type: none"> <li>• Distributed Generation rule <i>Done</i></li> <li>• I/M heavy duty inspections <i>Ongoing</i></li> <li>• BMPs and CA/T retrofits <i>Ongoing</i></li> <li>• Truck Idling <i>Ongoing</i></li> <li>• School Bus Idling – <i>3 rounds of inspections for school bus idling performed at 91 schools; 16 enforcement actions issued; over 2000 school bus drivers trained to date</i></li> <li>• Diesel Plan <i>Ongoing</i> <ul style="list-style-type: none"> <li>•</li> </ul> </li> </ul>

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	<p>touring trolley companies to retrofit vehicles with oxidation catalysts and encourage use of ULSF</p> <ul style="list-style-type: none"> <li>• Facilitate a pilot project in Boston to reduce air pollution and air toxics from transportation sources thru participation in EPA's voluntary transportation programs, i.e.; Voluntary Diesel Retrofit Program, Anti-Idling Initiatives, Best Workplaces for Commuters and SmartWay Transport. Pilot will launch with a workshop for Boston area businesses this winter.</li> <li>• Work with Massport to reduce diesel emissions at Conley Terminal thru strategies such as emulsified diesel fuel, ULSF, diesel retrofits, and anti-idling outreach and enforcement</li> <li>• Recognize employers that encourage their employees to commute to work in ways that reduce pollution &amp; traffic congestion by adding names of these employers to the New England list of the Best Workplaces for Commuters</li> </ul>	<p>emissions. Plan should be complete during winter of 2004. Strategies under consideration include expanded anti-idling programs, expanded diesel powered vehicle tailpipe I&amp;M program and program enforcement, promoting engine retrofits, promoting the use of ultra low sulfur fuel (ULSF) and tax credits for retrofits and early use of ULSF.</p>	

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	employers. <ul style="list-style-type: none"> <li>• Provide and manage \$130,000 New England Asthma Regional Coordinating Council (ACR) grants for asthma reduction plan including school bus diesel retrofit pilots and anti-idling efforts in high risk communities with high risk of asthma</li> </ul>		
<p><b>Toxics</b> NOTE: Other Multi Media Work, such as “Toxics Use Reduction” &amp; “Beyond ERP” that apply equally to the Air &amp; Industrial Wastewater Goals can be found under Goal 3: Manage Waste &amp; Clean Up Waste Sites</p> <p><b>Lead:</b> EPA goal to eliminate medically confirmed blood lead levels greater than 10jug/dL among children under age 6 by</p>	<p><b>General Toxics Work</b></p> <ul style="list-style-type: none"> <li>• Implement the PSD program, in close coordination with MA DEP</li> <li>• Review and provide comments on major non-attainment NSR permits, Title 5 operating permits, and permits to restrict emissions</li> <li>• Review and take regulatory action on changes submitted on MA plan approval requirements at 310 CMR 7.02</li> <li>• Notify MA facilities subject to commercial, industrial, solid waste incinerator (CISWI) regs, and small municipal waste combustor (MWC) regs</li> <li>• Work with NESCAUM workshop for states on</li> </ul>	<p><b>General Toxics Work</b></p> <ul style="list-style-type: none"> <li>• Reduction in daily toxic emissions resulting from the Enhanced Vehicle Maintenance Program <i>Ongoing</i></li> <li>• Reduction in daily toxic emissions resulting from the Stage II Vapor Recovery Program <i>Ongoing</i></li> <li>• State progress in collecting and compiling ambient and emission source data for toxics to better understand the nature and extent of the air toxics problem (Monitoring data results) <i>Ongoing</i></li> </ul> <p style="text-align: center;"><b>Environmental Quality Assessment</b></p> <ul style="list-style-type: none"> <li>• Review and comment on the 1999 National Air Toxics Assessment, specifically targeting MA information <i>Ongoing</i></li> <li>• Enter MA-specific mercury emissions data into the National Emissions Inventory <i>Ongoing</i></li> <li>• Update air toxics information on DEP's website <i>Ongoing</i></li> </ul> <p><b>Mercury</b></p> <ul style="list-style-type: none"> <li>• Achieve at least 85% reduction in mercury</li> </ul>	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	Milestones
<p>2010</p> <p><b>Mercury:</b> EPA Regional Mercury Model provides an integrated approach to assessing the effects of mercury from the atmosphere, point and non-point sources on watersheds and ultimately, fish populations</p> <p><b>Asbestos Enforcement Initiative:</b> MA DEP's goal is to enhance and support enforcement of asbestos regulations and protect public health through:</p> <ul style="list-style-type: none"> <li>• Increase targeted inspections</li> <li>• Publicize inspection efforts</li> <li>• Publicize enforcement cases</li> </ul> <p><b>Dioxin:</b> Two EPA projects are planned.</p> <ul style="list-style-type: none"> <li>• Barrel Burning Project:</li> <li>• Source Inventories</li> </ul>	<p>revisions to the federal NSR program</p> <ul style="list-style-type: none"> <li>• Work with NESCAUM's Air Quality and Public Health Committee on presentations and guidance for states on air toxics regs, community air toxics projects, air toxics risk, and the results of the 1999 National Air Toxics Assessment (NATA) due in 2004</li> <li>• Continue to send DEP weekly/monthly updates of new source performance standards (NSPS) and maximum available control technology (MACT) standards and host monthly air toxics conference calls</li> <li>• Semi-annually, send DEP options on accepting delegation of NSPS and MACT standards and delegate accordingly</li> <li>• Provide technical assistance and oversight for dispersion modeling for NSR/PSD sources</li> <li>• Provide assistance on MACT, NSR or NSPS applicability determinations</li> <li>• Oversee \$60,000 grant to</li> </ul>	<p>emissions from power plants <i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Mercury emissions from municipal waste combustors will decrease further due to pollution prevention, implementation of material separation plans, and new controls to be installed in 2003 and 2004 at two Municipal waste combustors <i>Ongoing</i></li> <li>• Reductions in power plant mercury emissions are expected upon installation of new SO<sub>2</sub> and NO<sub>x</sub> controls at large power plants and upon promulgation and implementation of proposed power plant mercury regulations <i>Ongoing</i></li> </ul> <p><b>Asbestos Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Asbestos demolition/renovation compliance rate target to be determined through Beyond ERP</li> <li>• Targeted Inspections: DEP will perform asbestos inspections, targeting inspections based on the potential risk of exposure. (<i>Did 529 Inspections issued 28 Higher Level Enforcement actions</i>)</li> <li>• Off-Hour Inspections: To increase ability to discover violations, enforcement staff will perform inspections during weekends and evenings. Program Development and Evaluation <i>Ongoing</i></li> <li>• Develop the following regulations and guidance for the asbestos program: Asbestos in Soil Regulations and Guidance, Routine Building Maintenance Asbestos Guidance, Revised Asbestos Base Penalty Amounts, Asbestos Cement Shingle Guidance, Asbestos Inspection Protocol for Solid Waste Handling Facilities <i>Ongoing</i></li> <li>• Beyond ERP: Asbestos at Construction and Demolition Debris Processors Project: develop policies, revise permits as needed <i>Ongoing</i></li> </ul>	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	Milestones
	<p>Lawrence/ Merrimack Valley air toxics project</p> <ul style="list-style-type: none"> <li>• Oversee \$50,000 grant to North Shore HealthLink air toxics project</li> <li>• Work with states and regulated community in implementing Maximum Achievable Control Technology and New Source Performance Standards</li> <li>• Work with states to approve alternative state air toxics requirements which achieve superior environmental results as compared to federal MACT standards</li> </ul>	<ul style="list-style-type: none"> <li>• Beyond ERP: Asbestos Targeted Group and HHV: <ul style="list-style-type: none"> <li>○ Asbestos in soils regulation and policy development</li> <li>○ Develop Routine Building Maintenance Asbestos Guidance</li> <li>○ Revise Asbestos Base Penalty Amounts</li> <li>○ Develop Asbestos Cement Shingle Guidance</li> <li>○ Asbestos Inspection Protocol for Solid Waste Handling Facilities <i>Ongoing</i></li> </ul> </li> </ul> <p style="text-align: center;"><b>Reporting</b></p> <ul style="list-style-type: none"> <li>• Reporting: Asbestos Notifications receipt and management <i>Managed 15531 Notifications</i></li> </ul>	
<p><b>Maintain the Ambient Air Monitoring Network</b></p> <p>DEP meets the data capture standards for all parameters except for PM. DEP is working on a plan in consultation with EPA to improve PM data capture. Average data capture for PM2.5 rose from 70% to 80% between 2001 and 2002. DEP will continue to</p>	<ul style="list-style-type: none"> <li>• Operate the Lowell carbon monoxide (CO) monitor (until EPA's coop student leaves in the spring of '04, when EPA will then revisit ability to continue support)</li> <li>• Conduct performance audits of Bio Watch monitors, ozone and other pollutant monitors</li> <li>• Conduct volatile organic compound (VOC) round robin for photochemical assessment monitoring stations (PAMS)</li> <li>• Continue to perform instrument performance</li> </ul>	<ul style="list-style-type: none"> <li>• Air quality monitoring network: upgrade per EPA grant commitment</li> <li>• Analyze air quality monitoring data <i>Ongoing</i></li> <li>• Perform routine quality assurance/quality control on the ambient air quality network and data, in compliance with EPA-approved QAPPS <i>Ongoing</i></li> <li>• Update PM2.5 QAPP, reflecting new equipment and EPA comments</li> <li>• Submit electronically to EPA ambient monitoring data on criteria pollutants within 90 days of the close of a calendar quarter, ambient monitoring PAMS data within 6 months of the close of each month in the ozone season, and air toxics data within six month <i>Ongoing</i></li> <li>• Run and maintain the air monitoring network for criteria air pollutants (PM2.5, CO, NO2, SO2,</li> </ul>	<ul style="list-style-type: none"> <li>• Submit draft PM2.5 QAPP Update, in June '05. <i>Draft submitted to EPA</i></li> <li>• Complete the installation of the new PM2.5 monitors by winter 05 <i>done</i></li> </ul>

<b>Key Strategies</b>	<b>2005 – 2006 Actions</b>		
	<b>EPA NE</b>	<b>MA DEP</b>	<b>Milestones</b>
work to improve data.	audits at NAMS, SLAMS , and PAMS monitoring sites. <ul style="list-style-type: none"> <li>Review proposed changes to the air quality monitoring network and evaluate all new monitoring sites for proper siting criteria</li> </ul>	PM10, Pb, Ozone (including BAM, speciation, and IMPROVE monitors) and for meteorological parameters, assuring a data collection of 90% for ozone and 75% for all <i>Ongoing</i> <ul style="list-style-type: none"> <li>Run and maintain ambient monitoring network for non-criteria pollutants (PAMS, Toxics, PM Speciation) consistent with EPA requirements <i>Ongoing</i></li> </ul>	
<b>Acid Rain</b>		<b>Program Development and Evaluation</b> <ul style="list-style-type: none"> <li>Coordinate with New England Governor's Eastern Canadian Premiers Acid Rain work: forest mapping, acid deposition, and water quality monitoring <i>Ongoing</i></li> </ul>	
<b>Compliance and Enforcement</b>	<ul style="list-style-type: none"> <li>Prepare statewide GIS map of air toxics sources, major sources and potential EJ areas/ provide to MA for use in targeting and strategy development</li> <li>Cooperate on development of MA proposal to credit work performed on MA dry cleaner ERP program</li> <li>Employ risk-based targeting of inspections and enforcement; employ additional place-based targeting to address EJ issues, including continuation of</li> </ul>	<ul style="list-style-type: none"> <li>Complete proposal to credit work performed on Massachusetts dry cleaner ERP program <i>Ongoing</i></li> <li>Consider additional place-based targeting to address EJ issues, including continuation of cooperative efforts in Lower Mystic River watershed <i>Ongoing</i></li> <li>Improve reporting of enforcement action in EPA databases and improve knowledge of facility universe <i>Ongoing</i></li> </ul>	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	Milestones
	cooperative efforts in Lower Mystic River watershed <ul style="list-style-type: none"> <li>• Continue work with MA DEP to improve enforcement action reporting in EPA databases &amp; improve knowledge of facility universe</li> </ul>		
<b>Other Multi-Media Work (Toxics Use Reduction) &amp; work done as part of the Beyond ERP initiative that applies equally to the Air and Industrial Wastewater can be found in the Waste Strategies Section of this PPA</b>			

## **Goal 2: Clean and Safe Water**

### **Drinking Water/Surface and Ground Water/Intact and Functioning Wetlands**

#### **National Status and EPA Strategies**

Over the 30 years since the enactment of the Clean Water and Safe Drinking Water Acts, government, citizens, and the private sector have worked together to make dramatic progress in improving the quality of surface waters and drinking water. Today, drinking water is treated to be safe at the faucet end and protected at the source. Today, the number of polluted waters has been dramatically reduced, and many clean waters are even healthier. A massive investment of federal, state, and local funds has resulted in a new generation of sewage treatment facilities able to provide “secondary” treatment or better. More than 50 categories of industry now comply with nationally consistent discharge regulations. In addition, sustained efforts to implement “best management practices” have helped reduce runoff of pollutants from diffuse, or “nonpoint,” sources. But despite these outstanding improvements, population growth continues to generate higher levels of water pollution and places greater demand on drinking-water systems. To further our progress toward clean waters and safer drinking water, we must both maintain our commitment to the core measures we have already established and look for new ways to improve water quality and protect human health.

#### **Massachusetts 2005-2006 PPA Water Program**

As part of this PPA, in 2005, DEP piloted an innovative approach to the development of environmental goals and the work plans needed to achieve those goals and disseminate them via the internet. The pilot has been completed successfully and then 2nd year of this innovative program will be to institutionalize this approach for FY07. The electronic work plans for DEP's Water Programs can be found at: <http://www.mass.gov/dep/water/priorities/05home.htm> and is incorporated into this PPA by reference.

#### **Water Program Milestone Deliverables**

In addition, there are milestone deliverables that DEP anticipates meeting during the 2005-2006 PPA. A listing of these deliverables can be found at : <http://www.mass.gov/dep/water/priorities/05home.htm>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<b>Waste Reduction</b>			
<b>Solid Waste Master Plan Development</b>		<p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Solid Waste Master Plan update and revision/mid course adjustment</li> <li>• Work with the external Solid Waste Advisory Committee and Subcommittees Analyzing solid waste streams to help target assistance programs: organics mapping <b>Ongoing</b></li> <li>• Complete Annual Solid Waste Status Report for 2003 and Update Capacity Projections</li> </ul> <p style="text-align: center;"><b>Reporting</b></p> <ul style="list-style-type: none"> <li>• Collect, manage, and analyze solid waste Municipal Data Sheets, Processor Surveys, Compost Site Reports</li> <li>• Manage routine regulatory reporting requirements and associated data development &amp; management activities for the Solid Waste Management Facility Annual Reports</li> </ul>	<ul style="list-style-type: none"> <li>• Issue Draft Revised Master Plan by April 2005 <b>Draft issued Fall 05</b></li> <li>• Issue Final Revised Master Plan by June 2005 <b>Projected Spring 06</b></li> <li>• Complete the Annual Solid Waste Status Report for 2003 by July 2005 <b>Done</b></li> <li>• Manage a total of 650 solid waste reports <b>Done</b></li> </ul>
<p><b>Reduce Solid Waste and Promote Recycling</b></p> <p><b>Solid Waste Master Plan Implementation</b></p>	<ul style="list-style-type: none"> <li>• Implement targeted reduction /efficiency strategies on: Electronics waste, Food Waste, Green Buildings, including EPA Facilities</li> <li>• Implement targeted sector strategies on: Health Care/Hospitals, Schools, Colleges and Universities</li> <li>• Provide grant to MA DEP focused on Recycling Food Waste</li> <li>• Provide grant to MA WasteCap focused on Marine Shrinkwrap</li> <li>• Provide assistance to MA DEP for Food Waste Summit</li> <li>• Support electronic recycling coordination through Northeast</li> </ul>	<p><b>Solid Waste Diversion: Schools</b> Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> <li>• School Recycling Programs/Green Team</li> </ul> <p><b>Solid Waste Diversion: Residential</b> Grants/Loans/Technical Assistance/Outreach</p> <ul style="list-style-type: none"> <li>• Residential Food and Yard Waste: Home Composting Grants and outreach</li> <li>• Residential Food and Yard Waste: Support Pay As You Throw programs</li> <li>• Residential Paper: Award New Springfield MRF contract</li> <li>• Residential Paper: Equipment and Technical Assistance – support municipal recycling programs by maintaining tools and assistance</li> </ul>	<ul style="list-style-type: none"> <li>• Implement The Green Team at 151 schools representing nearly 30,000 students. Start 4 new school recycling programs and expand 8 others. Provide equipment where necessary.. <b>Done</b></li> <li>• Award 20+ communities with home composting bins and/or food waste buckets. Hold 8 compost workshops <b>Done</b></li> <li>• Provide 3 PAYT grants, provide 15+ communities with PAYT technical assistance, hold 4 PAYT events, and meet with 30+ communities individually on</li> </ul>

Key Strategies	2005 – 2006 Actions		
	<b>EPA NE</b>	<b>MA DEP</b>	<b>MILESTONES</b>
	Recycling Council (NERC)	<ul style="list-style-type: none"> <li>• Residential Paper: Increase Pay As You Throw programs</li> <li>• Residential Paper: Recycling Education and Outreach – Leverage extensive outreach with limited resources</li> </ul>	<p>PAYT..<b>Done</b></p> <ul style="list-style-type: none"> <li>• Negotiate and award the Springfield MRF contract by Dec. 2004. <b>Done</b></li> <li>• Equipment and Technical Assistance Grants – Award over 20 TA projects, Provide equipment of 25+ communities. <b>Done</b></li> </ul>
		<p><b>Solid Waste Diversion: Commercial Grants/Loans/Technical Assistance/Outreach</b></p> <ul style="list-style-type: none"> <li>• Commercial Organics: Expand Supermarket Composting Project</li> <li>• Manage EPA Organics Grant for supermarket composting</li> <li>• Commercial Organics: Hauler Outreach and Incentives</li> <li>• Commercial Organics: Organics Summit</li> <li>• Commercial Organics: Policy/program development</li> </ul> <p><b>Ongoing</b></p> <ul style="list-style-type: none"> <li>• Commercial Organics: RIRC grants and RLF loans</li> <li>• Commercial Organics: Work with farmers</li> <li>• Commercial Paper and Cardboard: Support municipal business collection programs</li> <li>• Commercial Paper and Cardboard: Work with hospitals</li> <li>• Commercial Paper and Cardboard: Program Development and Evaluation</li> <li>• Commercial Paper and Cardboard: Waste ban: hauler and generator outreach and enforcement</li> </ul>	<ul style="list-style-type: none"> <li>• With EPA grant - support food waste diversion at 55 supermarkets and add another 25 stores. <b>Added 10 stores</b></li> <li>• Give Wastewise awards to 6 largest supermarket chains for joining Wastewise and diverting organics. <b>Done</b></li> <li>• Provide ongoing technical assistance to composting facilities – perform 30+ site visits <b>Done</b></li> <li>• Negotiate and enter into MOU with Mass Food Assoc. to have organics diversion industry wide by 2010. <b>Done</b></li> <li>• Hold Organics Summit with 200 participants in Spring, 2005 <b>Done</b></li> <li>• With EPA grant – provide farmers with hands-on technical assistance on BMP’s of food waste composting. <b>Done</b></li> <li>• Award 1 grant to food waste diversion business through RIRC. <b>Done</b></li> <li>• Provide ongoing technical</li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
			assistance to the 150+ municipal business-recycling programs. Hold mini-business recycling conference. <b>Done</b> <ul style="list-style-type: none"> <li>• Begin development of a hospital strategy through expansion of the Shattuck Hospital Initiative. <b>Done</b></li> <li>• Develop strategy for enforcement of waste bans on haulers and generators <b>Done</b></li> </ul>
		<b>Solid Waste Diversion: Construction and Demolition Debris Program Development and Evaluation</b> <ul style="list-style-type: none"> <li>• Wood and Gypsum Wallboard: C&amp;D Subcommittee: Continue to hold regular committee and subcommittee meetings on the C&amp;D ban and market development <b>Ongoing</b></li> <li>• Wood and Gypsum Wallboard: Promulgate C&amp;D ban, conduct outreach and oversee facility waste ban planning <b>Grants/Loans/Technical Assistance/Outreach</b></li> <li>• Wood and Gypsum Wallboard: Gypsum wallboard market development/product stewardship</li> <li>• Wood and Gypsum Wallboard: Targeted technical assistance and market development grants</li> </ul>	<ul style="list-style-type: none"> <li>• Promulgate C&amp;D Waste ban - Winter 2005 <b>Promulgated October 05</b></li> <li>• Develop and issue guidance by Winter 2005, hold 2 workshops on compliance with new ban. <b>Guidance and workshop developed Fall 05</b></li> <li>• Hold 5 Gypsum workgroup meetings to develop strategy to divert. <b>Done</b></li> <li>• Hold 5 Wood workgroup meetings to foster diversion. <b>Done</b></li> <li>• Initiate Carpet workgroup to develop diversion strategy. <b>Done</b></li> <li>• Award 1 grant to business diverting C&amp;D material <b>Awarded 2 grants</b></li> </ul>
		<b>Solid Waste Diversion/ Hazardous Products: Mercury Products, Mercury in Schools, and Pesticides Permitting</b> <ul style="list-style-type: none"> <li>• Oversee Municipal Waste Combustor Mercury Material Separation Plans</li> </ul> <b>Grants/Loans/Technical Assistance/Outreach</b>	<ul style="list-style-type: none"> <li>• Review, approve and monitor 6 municipal waste combustor mercury material separation plans <b>Done</b></li> <li>• Complete Hospital PPIS final report and develop/post 2 case studies <b>FY06</b></li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<ul style="list-style-type: none"> <li>EPA Hospital Audit Program</li> <li>Pesticide Reduction and Healthy Lawns</li> <li>Support School Chemical Cleanouts</li> <li>Work with State Sustainability Council <b>Ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>Hold 8 Pesticide Reduction Workshops for up to 20 communities. <b>Done</b></li> <li>Award grant to 4 communities for school chemical cleanouts and management <b>Done</b>.</li> <li>Participate in implementation plan development for State Sustainability – Toxics. <b>Done</b></li> </ul>
		<p><b>Solid Waste Diversion: Basic Program Infrastructure Grants/Loans/Technical Assistance/Outreach</b></p> <ul style="list-style-type: none"> <li>Bottle Bill Oversight/Registration/Grants</li> <li>Business Recycling Assistance – support WasteCap ongoing business assistance</li> <li>Buy Recycled/Market Development Support– Assist in Buy Recycled/EPP Vendor Fair, serve as clearinghouse for information and support requests</li> <li>DARP Oversight</li> <li>Municipal Recycling Grants – Equipment and Education continue to provide grants to support new and expanded municipal waste reduction initiatives</li> <li>Promote Product Stewardship: Carpet, Electronics, and Paint</li> <li>Regional Recycling Coordination/Technical Assistance with municipal officials</li> <li>Surplus Property Reuse and Distribution: Coordinate and document municipal exchanges</li> <li>School Recycling Programs/Green Team <b>Ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>Award \$1.375 M (<b>1.268m</b>) in redemption center grants <b>Done</b></li> <li>Register Redemption Centers twice. <b>Done</b></li> <li>Collaborate with WasteCap on providing technical assistance to businesses <b>Not Done</b></li> <li>Hold 6 workshops at EPP Vendor Fair. Serve on organization comm. <b>Done</b></li> <li>Begin strategizing and holding meetings on DARP post 2005 <b>Done</b></li> <li>Award grants to 50 communities for recycling equipment and education totaling approximately \$200,000. <b>Done</b></li> <li>Sign Product Stewardship Agreement on Paint. <b>Done</b></li> <li>Increase Surplus Property Reuse and distribution by 25%. Document all matches. <b>Done</b></li> <li>Initiate Carpet workgroup to develop diversion strategy <b>Done</b></li> </ul>
		<b>Sustainability</b>	<ul style="list-style-type: none"> <li>Develop and implement work</li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<b>Program Development and Evaluation</b> <ul style="list-style-type: none"> <li>Sustainability Council Participation</li> </ul> <b>Grants/Loans/Technical Assistance/Outreach</b> <ul style="list-style-type: none"> <li>Web Page Development to support key initiatives</li> </ul> <b>Ongoing</b>	plan for the Waste Reduction component of the State Sustainability Plan <b>Done</b> <ul style="list-style-type: none"> <li>Attend monthly SSC Meetings <b>Done</b></li> </ul>
<b>Toxics Management and Reduction – TURA Program</b>  (NOTE: This is a multi media program equally relevant to Air and Industrial Wastewater Goals)		<b>Reporting</b> <ul style="list-style-type: none"> <li>TURA Annual Report collection, management, review and analysis</li> <li>Tier 2 Right to Know reporting assistance to regulated community <b>Ongoing</b></li> </ul> <b>Public Information</b> <ul style="list-style-type: none"> <li>TURA Progress Assessment: Prepare Annual TURA Data Release and Report to Legislature</li> </ul> <b>Program Development and Evaluation</b> <ul style="list-style-type: none"> <li>Develop TURA Redesign Legislation with TURA Partners (secretary's priority) <b>Done</b></li> <li>Coordination with external "TURA Partners" <b>Ongoing</b></li> <li>Toxics Use Reduction Regulatory Package: Streamlining regulations <b>Done</b></li> </ul> <b>Permitting</b> <ul style="list-style-type: none"> <li>Issue Toxics Use Reduction Planner Certifications</li> </ul> <b>Fees</b> <ul style="list-style-type: none"> <li>Issue Toxics Use Reduction Bills for 2004</li> </ul> <b>Data Systems Development</b> <ul style="list-style-type: none"> <li>TURA eDEP – Improve filing forms to increase percentage of companies filing electronically <b>Done</b></li> </ul> <b>Compliance and Enforcement</b> <ul style="list-style-type: none"> <li>TURA Annual Report collection, management, compliance and enforcement and analysis <b>Ongoing issued 64 enforcement actions for reporting violations</b></li> <li>Inspect Large Quantity Toxics Users and take appropriate follow up enforcement <b>Did 130 inspections at LQTUs issued 11 enforcement actions</b></li> </ul>	<ul style="list-style-type: none"> <li>Manage reports from 620 Large Quantity Toxics Users <b>633 reports</b></li> <li>Issue annual TURA Data Release and Report to legislature by July 2005 <b>2003 Data Release Issued October 2005; legislative report issued in February 2005</b></li> <li>Issue 90 Toxics Use Reduction Planner Certifications <b>Received and acted on 69</b></li> <li>Issue \$4.1 million of TURA bills to approximately 620 facilities <b>Done</b></li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<p><b>Beyond ERP</b> (Note: The program innovation is equally relevant to air &amp; industrial wastewater goals)</p> <p>Apply ERP techniques to a broad portion of the regulated universe ie.:</p> <ul style="list-style-type: none"> <li>• Establish performance targets</li> <li>• Evaluate performance against those targets</li> <li>• Streamline oversight if performance is adequate, and</li> <li>• Additional measures if performance is below target</li> </ul>		<ul style="list-style-type: none"> <li>• Continued Assessment and program oversight streamlining on six sectors: solid waste transfer stations, Biotech facilities, small engines and turbines (distributed generators), mercury discharges from dental offices, stage II gasoline facilities, and photo processors. These projects are being done as part of a “design/build strategy” to help inform the overall design of the Beyond ERP initiative.</li> <li>• Assessment and program oversight of new sectors for FFY05: Illegal dischargers to drinking water protection areas, closed landfills, soils processors, asbestos, and other targets to be identified <b>Ongoing</b></li> <li>• Implementation of new oversight strategy that provides routine field oversight to “most risky” facilities, and report review and appropriate enforcement response to other sources <b>Done</b></li> <li>• Development and implementation of new inspection types to be used in assessment and to broaden our field presence</li> </ul>	
<p><b>Proper Operation of Solid Waste Management Facilities</b></p>		<p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Beyond ERP: HIHV project: Inactive Landfill Assessment <b>Ongoing</b></li> <li>• Review groundwater monitoring reports from solid waste management facilities and take appropriate follow up action</li> <li>• Review financial assurance reports from solid waste management facilities and take appropriate follow up action <b>Reviewed 66 reports</b></li> <li>• Conduct inspections and follow up enforcement at solid waste management facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct approximately 450 inspections at solid waste management facilities and take appropriate follow up enforcement <b>Did 713 Inspections issued 133 enforcement actions</b></li> <li>• Work on over 200 active solid waste facility permit and plan approval applications, and beneficial use determinations <b>Completed action on 236 applications</b></li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<p><b>RCRA</b></p> <p>Joint effort to streamline the RCRA Authorization process</p>	<ul style="list-style-type: none"> <li>• Co-chair national functional equivalence workgroup</li> <li>• Work with DEP on authorization process streamlining pilot package</li> </ul>	<p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Beyond ERP: Petroleum Contaminated Soils Processors Project <b>Ongoing</b></li> <li>• Evaluate asbestos management at SW processing facilities <b>Ongoing</b></li> <li>• Beyond ERP: Asbestos Targeted Group and HHV: Asbestos in soils regulations <b>Ongoing</b></li> <li>• Beyond ERP: Transfer Station Project: Alternative Penalty Policy <b>Parked</b></li> <li>• Beyond ERP: Transfer Station Project: Certification Regulations <b>Decided not to do</b></li> <li>• Regulation, Policy and Guidance Development for Solid Waste (non Beyond ERP): Facility, Beneficial Use Determinations, Facility Based Impact Assessments, Waste Bans, Master Plan Implementation, H2S Action Level, Municipal Ferrous Policy <b>Done</b></li> <li>• Regulation, Policy, and Guidance Development for Solid Waste (non Beyond ERP): guidance for assessing groundwater contamination at landfills and siting new landfill capacity in water quality sensitive areas <b>Parked</b></li> <li>• Work with the external Solid Waste Advisory Committee and Subcommittees <b>Ongoing</b></li> </ul> <p><b>Permitting</b></p> <ul style="list-style-type: none"> <li>• Issue state-wide Solid Waste Beneficial Use Determination Permits for waste reuse activities</li> <li>• Issue permits for solid waste management facility development and expansion</li> </ul>	<ul style="list-style-type: none"> <li>• Promulgate Solid Waste facility regulations and develop related guidance by winter 04-05 <b>Regulations promulgated Fall 2005</b></li> <li>• Manage over 1000 reports from solid waste facilities <b>Done</b></li> </ul> <ul style="list-style-type: none"> <li>• Develop Satellite accumulation policy by October 04 <b>Done</b></li> <li>• Authorization streamlining pilot chosen by February 2005 <b>Deemed infeasible</b></li> <li>• Final regs, AG statement, PD</li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
	<ul style="list-style-type: none"> <li>Work with DEP to establish acceptable satellite accumulation area policy</li> </ul>	<p>regulations</p> <ul style="list-style-type: none"> <li>Develop Hazardous Waste Resource Conservation and Recovery Act Authorization Regulations Develop a plan for making progress on Federally mandated RCRA authorization - C-4 to C-9 <b>Parked: replaced with RCRA Corrective Action</b></li> <li>Evaluate EPA Project XL Laboratory Project which provides universities with temporary variances from certain hazardous waste management regulations to determine if the project should be continued, per EPA grant commitment <b>EPA issued regulations to extend project XL we need to do the same</b></li> <li>Serve on the Board of Directors of the Northeast Waste Management Organization Association to promote interstate cooperation/ coordination <b>Ongoing</b></li> <li>Work with the external Hazardous Waste Advisory Committee <b>Ongoing</b></li> <li>Verify permit renewal baseline established by EPA NE</li> <li>Draft 310 CMR 21( c ) regulations necessary to be authorized for RCRA Corrective Action</li> </ul> <p><b>Permitting</b></p> <ul style="list-style-type: none"> <li>Permitting: Issue TSDf Licenses, Transporter Licenses , Emergency Treatment approvals, Hazardous Waste Treatability Studies, and Transporter Vehicle Identification Numbers</li> <li>Perform Hazardous Waste Facility Siting Determinations Under MGL C21D (if needed)</li> </ul> <p><b>Reporting</b></p> <ul style="list-style-type: none"> <li>Process Hazardous Waste Manifests</li> <li>Manage routine regulatory reporting requirements and associated data systems development &amp; management activities for electronic monthly operating report from hazardous waste transporters</li> <li>Manage routine regulatory reporting requirements and</li> </ul>	<p>and MOU submitted to EPA by 3/30/07 <b>Ongoing for corrective action – have draft regulations, developing AG statement, program description and memorandum of agreement</b></p> <ul style="list-style-type: none"> <li>Impasse on national Functional Equivalence Workgroup product resolved by Spring 2005 <b>Done</b></li> <li>Final national Functional Equivalence Workgroup product issued as guidance by Summer 2005 <b>National Guidance issued by EPA</b></li> <li>Permit renewal baseline set by end of FY05 <b>Done</b></li> <li>Develop plan for RCRA authorization progress by September 30, 2005 <b>Done</b></li> <li>Issue 4 TSDf Licenses, <b>Did 5</b> 30 Transporter Licenses, <b>Did 20</b> 10 Emergency Treatment approvals <b>Did 1</b> and 100s of Transporter Vehicle Identification Numbers</li> <li>Process 350,000 hazardous waste manifests <b>Done</b></li> <li>Manage 1560 + hazardous waste transporter monthly operating reports <b>Done</b></li> <li>Inspect approximately 100 large quantity hazardous waste generators and take appropriate follow up enforcement <b>Did 143 inspections issued 62 enforcement actions</b></li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<p>associated data systems development &amp; management activities for hazardous waste biennial report and RCRIS and submit compliance and enforcement reports to EPA</p> <p><b>Ongoing</b></p> <p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Take enforcement for hazardous waste related and Land Disposal Facility reporting violations</li> <li>• Perform compliance monitoring, report review, inspections and enforcement for hazardous waste transporters <b>Did 8 inspections issued 21 enforcement actions</b></li> <li>• Perform groundwater assessment monitoring at hazardous waste and solid waste facilities <b>Reviewed 8 reports at TSDFs as part of licensing, closing or post closure monitoring</b></li> <li>• Review financial assurance reports from hazardous waste management facilities and take appropriate response <b>Reviewed 24 reports from facilities and 109 from transporters</b></li> <li>• Inspect and take appropriate enforcement actions at hazardous waste generators, offsite hazardous waste recyclers, and Treatment Storage and Disposal Facilities</li> </ul> <p><b>Data Systems Development</b></p> <ul style="list-style-type: none"> <li>• Systems Development: CDX Network readiness grant - RCRA redesign, EPICS integration, testing, data transfer protocols to EPA</li> </ul> <p><b>Fees</b></p> <ul style="list-style-type: none"> <li>• Support Hazardous Waste Manifest and Cost Recovery Operations with BWSC <b>Ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>• Inspect several hundred small quantity hazardous waste generators and take appropriate follow up enforcement <b>Did 132 inspections issued 89 enforcement actions</b></li> <li>• Inspect all 13 treatment, storage and disposal facilities and take appropriate follow up enforcement <b>Done issued 3 enforcement actions</b></li> <li>• Inspect 25 commercial offsite recyclers and take appropriate follow up enforcement <b>Did 15 inspections at licensed recycling facilities issued 8 enforcement actions</b></li> <li>• Review several hundred reports from hazardous waste management facilities <b>Done</b></li> <li>• RCRA CDX Readiness Grant <ul style="list-style-type: none"> <li>○ DEP runs successful translations in the EPA test environment</li> <li>○ DEP final decision to move translated data into production</li> <li>○ DEP runs a full-replace translation from EPICS into the production RCRA Info handler module two months after EPA HQ has translation software in place.</li> </ul> </li> </ul> <p><b>Done – node has successfully transferred data, currently in final testing and adjustment</b></p>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<p><b>Oversee Cleanups at RCRA Corrective Action Sites</b></p>	<ul style="list-style-type: none"> <li>• Work with DEP in meeting the Environmental Indicators (EI) at the remaining Government Performance Results Act (GPRA) sites and in developing a schedule for achieving Remedy Decisions and Construction Completions at all sites subject to RCRA Corrective Action</li> <li>• Work with DEP in making Remedy Decisions and Construction Completions at sites subject to RCRA Corrective Action</li> <li>• Work with DEP in updating the RCRA database for Corrective Action activities</li> <li>• Conduct RCRA corrective action at several EPA lead sites in order to meet the EI's (Zeneca, Englehard, Clean Harbors Braintree, Columbia Mfg.).</li> </ul>	<p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Regulation, Policy and Guidance Development for Hazardous Waste (non Beyond ERP): Federally Corrective Action authorization work <b>Ongoing</b></li> </ul> <p><b>Permitting</b></p> <ul style="list-style-type: none"> <li>• Perform closure activities at hazardous waste facilities as required and evaluate Resource Conservation and Recovery Act Environmental Indicators</li> </ul> <p><b>RCRA Corrective Action</b></p> <p>As a one-time commitment, DEP has agreed to the following site-specific goals in the 2004-2006 PPA in order that EPA Region I can make required commitments to meet its GPRA goals. This is a level of specificity that DEP does not believe should be incorporated into the PPA. It must also be noted that these are site-specific goals. There is some uncertainty about what will be found at these sites as clean-up activities proceed. Completion dates might need to be revisited if site conditions mean the timelines must be extended.</p> <ul style="list-style-type: none"> <li>• Complete the human exposure EI checklists for the state lead 2005 GPRA sites</li> <li>• Complete all activities necessary to meet the Human Exposure indicator at the Wyman Gordon site by 9/30/05</li> <li>• Review Bostik site files and complete all activities necessary to meet the Human Exposure indicator by 9/30/05</li> <li>• Work with EPA to complete the EI checklists at the Leavens Awards and Walton &amp; Lonsbury sites by 9/30/05</li> <li>• Coordinate with EPA in making remedy decisions and remedy construction completions for sites on the new 2008 GPRA Baseline <b>Ongoing</b></li> <li>• Provide assistance to EPA in updating the RCRA database for Corrective Action activities and in obtaining documents at sites subject to RCRA Corrective Action from Licensed Site Professionals. <b>Ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>• Final regulations, Attorney General Statement and Memorandum of Understanding submitted to EPA by 3/ 30/07 <b>Ongoing</b></li> <li>• Meet the Human Exposure EI's and complete the human exposure checklists for all remaining 2005 GPRA Baseline sites by September 30, 2005 (this excludes the GE Pittsfield site) <b>Done</b></li> </ul>

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
<b>Industrial Wastewater</b>		<p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Beyond ERP: Biotech Project: IWW Certified Operator Regulations and Permit Standards <b>Done</b></li> <li>• Beyond ERP: Dental Mercury Project: Development <b>Done</b></li> <li>• Beyond ERP: Illegal Discharges to Drinking Water Protection Areas Targeted Group lead</li> <li>• Regulation, Policy and Guidance Development for Industrial Wastewater (non Beyond ERP): BRP groundwater discharge amendments <b>Strategy agreed upon</b></li> </ul> <p><b>Reporting</b></p> <ul style="list-style-type: none"> <li>• Beyond ERP: Dental Mercury: Manage the voluntary certification process <b>Done</b></li> </ul> <p><b>Permitting</b></p> <ul style="list-style-type: none"> <li>• Permit industrial discharges to groundwater</li> <li>• Coordinate with EPA on NPDES permits <b>Ongoing</b></li> </ul> <p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Conduct inspections and review monitoring data from industrial wastewater dischargers and take appropriate follow up enforcement</li> </ul>	
<b>Program Development and Support</b>		<p><b>Compliance and Enforcement</b></p> <ul style="list-style-type: none"> <li>• Implement municipal stewardship grant &amp; measurement program - extended 6 month for recognition program and develop plan to transition program <b>Done</b></li> </ul> <p><b>Data Systems Development</b></p> <ul style="list-style-type: none"> <li>• Systems Development: CDX Network readiness grant - RCRA &amp; Air Quality database work - redesign, EPICS integration, testing, data transfer protocols to EPA</li> <li>• Systems Development: Single Actor Model (SAM) - EPICS Integration work w/ITO</li> <li>• Systems Development: EDEP Support – Building forms, outreach to regulated community and technical support of eDEP application for all BWP forms</li> </ul>	

Key Strategies	2005 – 2006 Actions		
	EPA NE	MA DEP	MILESTONES
		<ul style="list-style-type: none"> <li>• Systems Development: C&amp;E Enhancement Systems work – MADOG, Citation Library, EPICS data model Changes</li> <li>• Participate in Quality Management Planning work group</li> </ul> <p><b>Fees</b></p> <ul style="list-style-type: none"> <li>• Issue Toxics Use Reduction Bills for 2004 <b>Done</b></li> <li>• Data support to Annual Compliance Fee (ACF) program - cleanup/extract for bills <b>Done</b></li> </ul> <p><b>Program Development and Evaluation</b></p> <ul style="list-style-type: none"> <li>• Work on NEWMOA and ASTSWMO projects to facilitate interstate waste management coordination <b>Ongoing</b></li> <li>• Implement Measures of Success Project <b>Done</b></li> </ul> <p><b>Program Planning and PPA</b></p> <ul style="list-style-type: none"> <li>• EPA grant commitment negotiations <b>Ongoing</b></li> </ul> <p><b>Public Information</b></p> <ul style="list-style-type: none"> <li>• Track and coordinate response to Freedom of Information Requests <b>Ongoing</b></li> <li>• Inter/intranet management, including Public Access Project <b>Ongoing</b></li> </ul>	

### Goal 3: Manage Wastes and Clean Up Waste Sites

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
<b>Waste Site Cleanup</b>			
<p><b>Maximize Risk Reduction</b></p> <p>Ensure Implementation of Mandatory Risk Reduction Measures</p>		<ul style="list-style-type: none"> <li>• Provide technical assistance to parties proposing IRAs</li> <li>• Oversee response actions in the field and mobilize state contractors where responsible parties cannot or will not respond</li> <li>• Provide oral approvals of IRA Plans</li> <li>• Review and approve follow-up written IRA Plans</li> <li>• Perform field visits to oversee IRAs in progress</li> <li>• Track progress in the database to ensure timely implementation of IRAs</li> <li>• Review IRA Completion Statements</li> <li>• Enforce deadlines for PRPs to perform mandatory risk reduction measures</li> </ul> <p><i>All risk reduction actions ongoing</i></p>	<ul style="list-style-type: none"> <li>• Open IRAs reviewed for CEP conditions - <i>ongoing</i></li> <li>• Downgradient Property Status (DPS) and Utility – Related Abatement Measures (URAMs) reviewed for IRA/CEP conditions - <i>ongoing</i></li> <li>• Enforcement actions initiated against parties found in noncompliance</li> </ul> <p><i>Continued to use tools against noncompliers: ACO, ACOP, Unilateral Order, PAN, NORA/lien</i></p>
<p>Oversee and Perform Emergency Response Activities</p>		<ul style="list-style-type: none"> <li>• Work with federal, state, and local authorities to plan for and define DEP’s role in any incidents involving weapons of mass destruction</li> </ul> <p><i>Initiated internal discussions to explore ways to assist in the Commonwealth’s preparedness missions</i></p> <ul style="list-style-type: none"> <li>• Coordinate with the Coast Guard when oil or hazardous material is released to the ocean, and act as the State On-Scene Coordinator (SOSC) in the Incident Command System (ICS)</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Respond to fish kills, in accordance with an inter-agency MOU with the Department of Fish and Game - <i>ongoing</i></li> <li>• Respond to releases on state highways, in</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<p>accordance with an MOU with the MA Highway Department - <i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Coordinate with the MA Department of Public Health in responding to releases of medical waste to the environment - <i>ongoing</i></li> <li>• Respond with the Department of Fire Services Regional HazMat teams and coordinate remediation of hazmat incidents - <i>ongoing</i></li> </ul>	
<p>Address Serious Risks Using Public Funds with State Contractors</p>		<ul style="list-style-type: none"> <li>• Conduct time-critical assessment and remediation activities (such as residential indoor air evaluation, emergency water supply) to address risks to sensitive receptors in cases where there is no known, willing, or able PRP</li> <li>• Investigate potential sources of contamination and conduct targeted remediation to protect municipal water supplies in various communities</li> </ul> <p><i>Both actions ongoing</i></p>	<ul style="list-style-type: none"> <li>• Implement the Urban NORA/Lien Enforcement Project</li> </ul> <p><i>WRO threatened to issue a lien on 13 sites and hire state contractors to perform the cleanups. All 13 responded, so no MassDEP action was necessary. CRO issued one NORA that resulted in an ACOP; cleanup work continues</i></p> <ul style="list-style-type: none"> <li>• Investigate the sources of perchlorate contamination in surface water and public and private drinking water wells</li> </ul> <p><i>Investigated perchlorate in drinking water wells in Boxborough, Boxford, Chesterfield, Hadley, Tewksbury, Westford, Westport, and Williamstown</i></p>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
			<ul style="list-style-type: none"> <li>Recover, to the maximum extent possible, the costs incurred by DEP in performing publicly funded risk reduction actions</li> </ul> <p><i>ongoing</i></p>
Triage		<ul style="list-style-type: none"> <li>Screen response action submittals and identify IRA, risk reduction, and enforcement needs and opportunities</li> <li>Refine triage process, criteria, and forms as needed to reflect and better support program operations in the face of significant staffing reductions</li> <li>Ensure appropriate level of IRA and other follow-up at those sites where risk and/or enforcement concerns are greatest</li> </ul> <p><i>All actions ongoing</i></p>	<ul style="list-style-type: none"> <li>Refine triage process, criteria, and forms as needed to reflect and better support program operations in the face of significant staffing reductions</li> <li>Ensure appropriate level of IRA and other follow-up at those sites where risk and/or enforcement concerns are greatest</li> </ul> <p><i>Both milestones ongoing</i></p>
Provide Direct Oversight of Response Actions at the Most Complex Sites		<ul style="list-style-type: none"> <li>Identify sites (through triage and other means) that pose the most concern with respect to complexities and/or risks to health, safety, public welfare, or the environment</li> <li>Identify specific IRA conditions and/or contaminant transport/exposure pathways where direct DEP oversight is necessary to ensure adequate short and/or long-term progress and resolutions (such as sites posing threats to public drinking water supplies)</li> <li>Articulate specific objectives and parameters of DEP oversight, and assign staff accordingly</li> </ul>	<ul style="list-style-type: none"> <li>Review on at least an annual basis the need to maintain direct DEP oversight, considering site conditions, progress made on achieving objectives, resource availability, and oversight needs at</li> </ul>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<i>All actions going</i>	other sites - <i>ongoing</i>
<p><b>Increase Rate of Cleanups at Waste Sites</b></p> <p>Enforce Against Parties Not Performing Cleanups</p>		<ul style="list-style-type: none"> <li>Enforce against parties who fail to notify DEP of releases as required by the MCP</li> <li>Issue anniversary reminder letters</li> <li>Strive to ensure first year preliminary response action compliance</li> <li>Issue Notices of Noncompliance and Interim Deadline letters</li> <li>Issue penalties and unilateral orders</li> <li>Negotiate Administrative Consent Orders</li> <li>Identify sites without viable PRPs and develop case-specific strategies to address them</li> <li>Identify recalcitrant PRPs and develop case-specific strategies to address them</li> </ul> <p><i>All actions ongoing</i></p>	<ul style="list-style-type: none"> <li>Send NONs to PRPs who fail to Tier Classify or conduct phase work <i>ongoing</i></li> <li>Send NONs to PRPs whose Tier I permits and Tier II classifications have expired <i>ongoing</i></li> <li>Send NONs to PRPs who sites are in Phase V or ROS if the systems are not operating properly or being monitored <i>ongoing</i></li> <li>Implement the Urban NORA/Lien Enforcement Project</li> </ul> <p><i>WRO threatened to issue a lien on 13 sites and hire state contractors to perform the cleanups. All 13 responded, so no MassDEP action was necessary. CRO issued one NORA that resulted in an ACOP; cleanup work continues</i></p> <ul style="list-style-type: none"> <li>Work with DFS to address abandoned USTs <i>ongoing</i></li> </ul>
Streamline and Maintain Compliance		<ul style="list-style-type: none"> <li>Create records in the Waste Site Cleanup (WSC)</li> </ul>	<ul style="list-style-type: none"> <li>Automate the generation</li> </ul>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
Tracking Systems		<p>database after receiving notice of a release or threat of release</p> <ul style="list-style-type: none"> <li>• Enter information from transmittal forms into the WSC database as reports are received</li> <li>• Enter information into the WSC database summarizing DEP-issued correspondence</li> <li>• Perform queries to evaluate the status and history of submittals at individual sites or categories of sites, and to generate compliance reports for targeted enforcement</li> <li>• Automate the generation of NONs</li> <li>• Develop analysis tools to improve evaluation of deadline compliance</li> <li>• Revise BWSC transmittal forms as needed</li> <li>• Increase use of online transmittal forms with incentives and outreach to LSPs and PRPs</li> <li>• Improve user interface of WSC database by staff, both in the field and in the office</li> </ul> <p><i>All actions ongoing</i></p>	<p>of NONs</p> <p><i>Created a new database category that classifies non-responders, allowing BWSC to address them as a distinct universe. Non-responder data sets were evaluated using these new categories; so targeted enforcement strategies could be developed. NON templates were used with the intention that they would eventually be automated.</i></p> <ul style="list-style-type: none"> <li>• Increase use of online transmittal forms with incentives and outreach to LSPs and PRPs</li> </ul> <p><i>Developed strategies, including outreach and training, Internet access to BWSC files, and potential electronic filing mandates. Use of e-filing increased to 462 submittals from 76 the previous year</i></p>
Encourage Deadline Compliance by Collecting Annual Compliance Fees		<ul style="list-style-type: none"> <li>• Continue to review and invoice fixed Annual Compliance Fees</li> <li>• Continue to streamline billing procedures</li> </ul> <p><i>Both actions ongoing</i></p>	
<p><b>Ensure the Quality of Cleanups at Waste Sites</b> Maintain Compliance Checks/ Inspections for Privatized Cleanups</p>		<ul style="list-style-type: none"> <li>• Conduct site audits as required by law: <ul style="list-style-type: none"> <li>• Level 1 audits (submittal screening)</li> <li>• Level 2 audits (field inspections to ensure that IRAs, RAMs, Remedy Operation Status, and AUL</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Audit all sites at which AULs are implemented</li> </ul>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<p>Obligation and Maintenance conditions are implemented)</p> <p><i>All actions ongoing</i></p>	<p><i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Publish audit findings in LSPA newsletter</li> </ul> <p><i>Published audit and enforcement findings in six LSPA Newsletters</i></p> <ul style="list-style-type: none"> <li>• Conduct a LSP training on audit case studies</li> </ul> <p><i>Conducted nine LSP classes on audit case studies</i></p>
<p>Conduct Enforcement to Address Noncompliance with MCP Performance Standards</p>		<ul style="list-style-type: none"> <li>• Review response actions to evaluate quality <i>ongoing</i></li> <li>• Conduct comprehensive compliance reviews</li> </ul> <p><i>WRO increased auditing actions at remedial systems, yielding increased compliance through issuance of one NON and two ACOPs.</i></p> <ul style="list-style-type: none"> <li>• Issue NONs or higher level enforcement to PRPs who violate the MCP requirements</li> </ul> <p><i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Refer LSPs whose opinions persistently or egregiously violate MCP standards to the LSP Board for disciplinary investigation</li> </ul> <p><i>Referred one LSP to the LSP Board</i></p> <ul style="list-style-type: none"> <li>• Issue NONs or higher level enforcement against LSPs or consulting firms who perform work that persistently</li> </ul>	<ul style="list-style-type: none"> <li>• Review LSP performance patters during audits</li> </ul> <p><i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Conduct Double-blind laboratory study</li> </ul> <p><i>MassDEP conducted a large double-blind laboratory evaluation study, involving 19 commercial laboratories that provide the majority of analytical support services to parties assessing and cleaning up hazardous waste sites in Massachusetts. The vast majority of the laboratories evaluated were</i></p>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<p>or egregiously violates MCP standards  <b>Issued one administrative penalty to a consultant and 6 NONs to LSPs/consultants</b></p> <ul style="list-style-type: none"> <li>• Refer cases to the AG for civil or criminal enforcement - <b>ongoing</b></li> <li>• Provide technical support and/or testimony in support of LSP Board disciplinary investigations and AG enforcement actions</li> </ul> <p><b>Assisted Board during investigations of eight previous complaints</b></p>	<p><i>able to consistently quantify most analytes within 20% of the actual value. This excellent result is well within the most stringent acceptance criteria in use by the industry.</i></p> <p><i>Each regional office selected a community to determine whether 21E sites proximate to schools and other sensitive receptors were in compliance with the MCP. The Fall River (July) report was issued during FY 2005; studies in the other regions were well underway but not completed. MassDEP evaluated 89 reported releases within 1000 feet of 48 Fall River schools. The result: response actions had been conducted properly at the majority (87 percent) of sites. For 12 sites where response actions were inadequate or behind schedule, MassDEP found that site conditions did not pose risk to schools or nearby residents and initiated enforcement actions for the cleanups to get the sites back on schedule. As a result of these enforcement efforts, the compliance rate for the Fall Rivers sites evaluated rose to 96 percent.</i></p>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
<p>Ensure that Policies and Regulations Promote Program Goals</p>		<ul style="list-style-type: none"> <li>• Issue Wave 2 public hearing draft - <b>completed</b></li> <li>• Finalize data enhancement program <b>completed</b></li> <li>• Issue Q&amp;As - <b>ongoing</b></li> <li>• Issue draft policy on feasibility evaluations for               <ul style="list-style-type: none"> <li>○ Critical Exposure Pathways</li> <li>○ Permanent vs. Temporary Solutions</li> <li>○ Selection of Remedial Action Alternatives</li> <li>○ Reducing/Detoxifying OHM Present at a Site Above UCLs</li> <li>○ Destruction/Detoxification vs. Capping</li> </ul> </li> <li>• Issue final Monitored Natural Attenuation guidance <b>ongoing</b></li> <li>• Issue final asbestos-in-soil policy <b>ongoing</b></li> </ul>	<ul style="list-style-type: none"> <li>• Released draft 9/20/2004</li> </ul> <p><b>completed</b></p> <ul style="list-style-type: none"> <li>• Finalize 9/10/2004</li> </ul> <p><b>completed</b></p> <ul style="list-style-type: none"> <li>• Issue Q&amp;As periodically</li> </ul> <p><b>WSC-04-160 was issued 7/2004; work on the remaining components is ongoing</b></p> <ul style="list-style-type: none"> <li>• Issue draft MNA in February 2004 - <b>ongoing</b></li> <li>• Issue AIS policy in February 2005 - <b>ongoing</b></li> </ul>
<p><b>Provide Direct Oversight for Federal Sites</b></p> <p>National Priorities List</p>	<p>Provide MA DEP funding under a Superfund Block Funding Cooperative Agreement (V99174203) which includes supporting National Priority List (NPL) activities for 35 NPL sites and core activities for eligible non-site specific work. In general, this grant covers MA DEP personnel time and some state contractual work in support of EPA NPL program.</p>		
<p>National Priorities List</p>	<p>Work with the state on a range of site clean up related activities</p>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<p>including: review, comment, and concurrence on all major documents, participation in public meetings, state contractor oversight, identification of state ARARs, and timely communication of issues and concerns. Work with MA DEP to submit (Under the Superfund Regulation, 40 CFR Part 35 Subpart O), Quarterly Progress Reports, Financial Status Reports, MBE/WBE Reports, and Property Inventory Reports, if applicable.</p> <p>Work with DEP on Institutional Controls – an area of renewed emphasis – to evaluate and resolve overarching issues impacting numerous sites</p>		
National Priorities List	<p><b>Atlas Tack site:</b></p> <ul style="list-style-type: none"> <li>• Continue Remedial Action, begin additional phases of remedial action as funding allows</li> </ul>		
	<p><b>Baird and McGuire site:</b></p> <ul style="list-style-type: none"> <li>• Obtain DEP review and concurrence of an Explanation of Significant Differences and begin cooperative effort on Institutional Controls concurrence of a Five-Year</li> </ul>	<p><b>Baird and McGuire site:</b></p> <ul style="list-style-type: none"> <li>• Complete takeover and implementation of operation and maintenance activities</li> </ul> <p><i>Completed O&amp;M activities; completed evaluation of 5-year review</i></p>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	review		
	<b>Blackburn &amp; Union Privileges site:</b> <ul style="list-style-type: none"> <li>• Complete Remedial Investigation/Feasibility Study, issue proposed plan and Record of Decision for cleanup (Alternate EPA Target)</li> </ul>		
	<b>Cannons (Bridgewater) site:</b> <ul style="list-style-type: none"> <li>• Complete five-year review of remedy with DEP input</li> </ul>		
	<b>Charles George site:</b> <ul style="list-style-type: none"> <li>• Complete five-year review of remedy with DEP input</li> </ul>		
	<b>General Electric</b> <ul style="list-style-type: none"> <li>• The Consent Decree created a "management architecture" which includes periodic meetings of the Regional Administrator, MA DEP Commissioner, Mayor of Pittsfield, Director of the Pittsfield Economic Development Authority and GE's VP in charge of Corporate Environmental Affairs. These meetings occur about 3 times per year. EPA will work with DEP on another part of the</li> </ul>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<p>consent decree where dozens of environmental restrictions are required to be placed on properties. DEP must be involved in the negotiation process in order to ensure that the final restrictions are acceptable to DEP who will be the grantor of the restrictions.</p>		
	<p><b>Groveland Wells site:</b></p> <ul style="list-style-type: none"> <li>• Continue operation of groundwater remedy</li> <li>• Evaluate additional source control options, implement recommendations of remedy optimization review with DEP input</li> <li>• Complete five-year review of remedy with DEP input</li> </ul>		
	<p><b>Hatheway &amp; Patterson site:</b></p> <ul style="list-style-type: none"> <li>• Complete Remedial Investigation/Feasibility Study, issue proposed plan and Record of Decision for cleanup. Obtain DEP review and concurrency on ROD</li> </ul>		
	<p><b>Haverhill Landfill site;</b></p> <ul style="list-style-type: none"> <li>• Continue coordination with DEP on PRP's drum</li> </ul>	<p><b>Haverhill Landfill site;</b></p> <ul style="list-style-type: none"> <li>• Work with the PRP's to remove or secure buried drums</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	removal and investigation activities	<i>Secured and removed buried drums</i>	
	<b>Hocomonco Pond site:</b> <ul style="list-style-type: none"> <li>Work with DEP and PRP on DNAPL recovery issues</li> </ul>		
	<b>Industri-Plex site:</b> <ul style="list-style-type: none"> <li>Work with DEP and PRP's to complete and implement institutional controls</li> <li>Conduct Feasibility Study (in conjunction with Wells G&amp;H site), issue proposed plan and Record of Decision for cleanup (alternate EPA target)</li> </ul>	<b>Industri-Plex site:</b> <ul style="list-style-type: none"> <li>Work with EPA and the PRPs to complete and implement institutional controls</li> </ul> <i>Completed review of and implemented institutional controls</i>	
	<b>Iron Horse Park site:</b> <ul style="list-style-type: none"> <li>Begin negotiations with PRPs for Remedial Design/Remedial Action</li> </ul>		
	<b>New Bedford harbor site:</b> <ul style="list-style-type: none"> <li>Continue Remedial Action – dredging and disposal of dredge materials</li> <li>Complete five-year review of remedy with DEP input</li> </ul>	<b>New Bedford Harbor site:</b> <ul style="list-style-type: none"> <li>Serve on the Portsfields Steering Committee to coordinate redevelopment of the port area</li> </ul> <i>ongoing</i>	
	<b>Norwood PCB site:</b> <ul style="list-style-type: none"> <li>Obtain DEP review and concurrence of an Explanation of Significant</li> </ul>	<b>Norwood PCB site:</b> <ul style="list-style-type: none"> <li>Work with property owner and developers to ensure work is conducted in a manner that maintains the protectiveness of the remedy</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Differences, a Superfund Reuse Assessment and a five-year review <ul style="list-style-type: none"> <li>• Work with DEP and landowners to complete and implement institutional controls</li> <li>• Finalize PRP's Operation and Maintenance Plan, complete Remedial Action</li> </ul>	<i>ongoing</i>	
	<b>Nyanza site:</b> <ul style="list-style-type: none"> <li>• Evaluate options to address groundwater (OU2), propose ROD Amendment, if necessary</li> <li>• Continue Remedial Investigations/Feasibility Study on Sudbury River (OU4)</li> </ul>		
	<b>PSC Resources site:</b> <ul style="list-style-type: none"> <li>• Complete five-year review of remedy with DEP input</li> </ul>		
	<b>Plymouth Harbor site:</b> <ul style="list-style-type: none"> <li>• Release complete Reuse Assessment, work with landowner if redevelopment proposals are received</li> </ul>		
	<b>ReSolve site:</b> <ul style="list-style-type: none"> <li>• Continue oversight of PRP operation</li> </ul>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	and maintenance and monitoring program		
	<b>Rose Disposal Pit site:</b> <ul style="list-style-type: none"> <li>Work with DEP and PRP on institutional controls issues</li> </ul>		
	<b>Silresim site:</b> <ul style="list-style-type: none"> <li>Continue operation of groundwater remedy</li> <li>Complete consolidation of off-property soils</li> <li>Begin design work on site cap</li> </ul>	<b>Silresim site:</b> <ul style="list-style-type: none"> <li>Work with EPA to develop an acceptable long-term solution</li> </ul> <i>ongoing</i>	
	<b>Shpack site:</b> <ul style="list-style-type: none"> <li>Begin negotiations with PRPs for Remedial Design/Remedial Action</li> </ul>	<b>Shpack site:</b> <ul style="list-style-type: none"> <li>Work with EPA and the PRPs to develop an acceptable remedial solution</li> </ul> <i>ongoing</i>	
	<b>Starmet site:</b> <ul style="list-style-type: none"> <li>Continue oversight of PRP Remedial Investigation/Feasibility Study</li> <li>Coordinate with DEP and community on DEP-led drum removal.</li> </ul>	<b>Starmet site:</b> <ul style="list-style-type: none"> <li>Complete the agreement with the Army and implement drum removal</li> </ul> <i>Completed agreement; removal is ongoing</i>	
	<b>Sullivan’s Ledge site:</b> <ul style="list-style-type: none"> <li>Continue cleanup using innovative technology (UV Oxidation)</li> </ul>		
	<b>Sutton Brook Disposal Area site:</b>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<ul style="list-style-type: none"> <li>Continue oversight of PRP Remedial Investigation/Feasibility Study</li> </ul>		
	<p><b>Wells G&amp;H site:</b></p> <ul style="list-style-type: none"> <li>Conduct Feasibility Study (in conjunction with Industriplex site) for Operable Unit 3, issue proposed plan and Record of Decision for cleanup (alternate EPA target)</li> </ul>		
	<p><b>W. R. Grace site:</b></p> <ul style="list-style-type: none"> <li>Complete Remedial Investigation/Feasibility study, issue proposed plan and Record of Decision for cleanup. Obtain DEP review and concurrence on ROD</li> </ul>		
		<ul style="list-style-type: none"> <li>Continue work with EPA at numerous other sites</li> </ul> <p><i>Implemented EPA's Cooperative Agreement at Charles George; evaluated 5-year site reviews at Nyanza, Rose Disposal Site, Wells G&amp;H, Hocomonco Pond, and WR Grace; evaluated Reuse Assessment at Cannons Engineering (Plymouth)</i></p>	
Federal Facilities	<p><b>Army Materials Technical Laboratory</b></p> <ul style="list-style-type: none"> <li>Work with DEP to obtain concurrence on the Charles River Operable Unit Record of</li> </ul>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Decision		
	<p><b>Fort Devens:</b></p> <ul style="list-style-type: none"> <li>• Work to obtain DEP review and concurrence of a Record of Decision</li> <li>• Work with DEP to ensure that the Army completes PA/SI work at the Grant Road Housing Area</li> <li>• Work with DEP to resolve groundwater and capping issues related to Shepley's Hill Landfill</li> </ul>		
	<p><b>Hanscom Air Force Base:</b></p> <ul style="list-style-type: none"> <li>• Obtain DEP review and concurrence of a Record of Decision</li> <li>• Continue cleanup using innovative technology (Bioremediation/Oxidation)</li> </ul>		
		<p><b>Naval Weapons Industrial Reserve Plant:</b></p> <ul style="list-style-type: none"> <li>• Work with the Navy on the early Covenant Deferral Request</li> </ul> <p><i>Minor discussion occurred</i></p> <ul style="list-style-type: none"> <li>• Continue work with EPA and DoD at numerous other sites</li> </ul> <p><i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Develop and submit Defense/State Memorandum of Agreement Cooperative Agreement for new funding for oversight activities</li> </ul> <p><i>Completed</i></p>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<p><b>South Weymouth Naval Air Station:</b></p> <ul style="list-style-type: none"> <li>• Assuming negotiations get back on track during FY 06, EPA will work with DEP to secure the Governor’s concurrence on the Covenant Deferral Request (CDR) package. Concurrent activities under the MA MEPA certificate on the development side include the smart growth effort that EPA supports</li> <li>• EPA will work with DEP to ensure that the Navy restarts work that had been slowed by the previous negotiation effort</li> <li>• Work to obtain DEP review and concurrence of one Record of Decision</li> </ul>	<p><b>South Weymouth Naval Air Station:</b></p> <ul style="list-style-type: none"> <li>• Complete agreements necessary for early transfer of and transfer/privatization of cleanup activities</li> </ul> <p><i>Worked on the CDR but the Navy and Tri-Town are still negotiating its terms</i></p>	
		<p>Continue work with EPA at numerous other federal facilities</p> <p><i>Ongoing</i></p>	
<p><b>Multi-Site Cooperative Agreement</b></p>	<ul style="list-style-type: none"> <li>• Work with DEP through Superfund Pre-Remedial Cooperative Agreement (V98116401)</li> </ul>	<ul style="list-style-type: none"> <li>• Make recommendations regarding Eligible Response Site Status for sites on CERCLIS</li> </ul> <p><i>Ongoing</i></p> <ul style="list-style-type: none"> <li>• Evaluate sites for listing on CERCLIS</li> </ul> <p><i>Completed 4 evaluations</i></p> <ul style="list-style-type: none"> <li>• Evaluate sites for recommendation to NPL</li> </ul> <p><i>Completed 1 evaluation</i></p> <ul style="list-style-type: none"> <li>• Evaluate sites on CERCLIS for federal vs. state</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		lead, and for removal from CERCLIS <i>Evaluated 8 sites</i> <ul style="list-style-type: none"> <li>Work with EPA on removal actions for time-critical projects</li> </ul> <i>No time-critical removals occurred</i>	
<b>Massachusetts Military Reservation: Perchlorate in Groundwater</b>	EPA continues with remedy selections and design/construction on the Superfund ground water plumes. One of the main issues on the Impact Area is the perchlorate level to be used to guide the investigation and cleanup.  EPA supports MA DEP efforts at promulgating a perchlorate standard.	Conduct the following work in connection with the investigation and remediation being conducted at the MMR by the Army and managed by the Army Environmental Center (AEC) <ul style="list-style-type: none"> <li>Establish Perchlorate MCL for drinking water</li> </ul> <i>The regulations establishing perchlorate standards were postponed pending completion of the National Academy of Sciences evaluation. Anticipate promulgation in 2006.</i> <ul style="list-style-type: none"> <li>Review and update Massachusetts standards as needed when EPA standards are established 2006-08</li> </ul> <i>ongoing</i> <ul style="list-style-type: none"> <li>Develop regulatory guidance, standards, and policies relating to management of perchlorate</li> </ul> <i>ongoing</i> <ul style="list-style-type: none"> <li>Reviews and provide comments and recommendations on documents or data submitted to DEP</li> </ul> <i>ongoing</i> <ul style="list-style-type: none"> <li>Identify, evaluate, and explain MCP requirements related to response actions</li> </ul> <i>ongoing</i> <ul style="list-style-type: none"> <li>Execute site visits and participate in activities subject to public involvement requirements, including participation in Technical Review</li> <li>Committee (i.e., IART)</li> </ul> <i>ongoing</i>	<ul style="list-style-type: none"> <li>Issue MCP regulation revisions package and promulgate regulations in 2004/2005</li> </ul> <i>The regulations establishing perchlorate standards were delayed pending completion of the National Academy of Sciences evaluation. Anticipate promulgation in 2006.</i>
<b>Massachusetts Military Reservation: Impact Area Groundwater Study (IAGS)</b>	EPA continues with investigations, remedy selections and	Conduct the following work in connection with the investigation and remediation being conducted at the MMR by the Army and managed by the Army Environmental	<ul style="list-style-type: none"> <li>Issue MCP regulation revisions package and promulgate regulations in</li> </ul>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<p>design/construction on the Impact Area ground water plumes and source areas.</p> <p>Work with DEP to obtain concurrence on the Demo 1 groundwater cleanup decision</p>	<p>Center (AEC)</p> <ul style="list-style-type: none"> <li>• Develop regulatory guidance, standards, and policies relating to management of Impact Area-related hazardous materials (e.g., HMX, RDX) that do not currently have state or federal drinking water or cleanup standards</li> </ul> <p><i>Draft regulations were released for public comment in the fall of 2004 but the package was delayed. Expect a revised draft to be reissued for comment in the spring of 2006</i></p> <ul style="list-style-type: none"> <li>• Execute technical reviews and provide comments and recommendations on documents or data submitted to DEP</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Identify, evaluate, and explain MCP requirements related to response actions</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Execute site visits and participate in activities subject to public involvement requirements, including participation in Technical Review</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Prepare and administer related agreements including reimbursement of costs associated with obtaining and analyzing split samples</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Review and inspect operations and maintenance of remedial response systems</li> </ul> <p><i>ongoing</i></p> <ul style="list-style-type: none"> <li>• Attend staff meetings and conferences in support of the IAGS program</li> </ul> <p><i>ongoing</i></p>	<p>2004/2005</p>
	<p>Continue cleanup using innovative technology (Recirculation wells)</p>	<ul style="list-style-type: none"> <li>• Provide regulatory oversight in close coordination with EPA (state serves as a concurring agency) in support of the MMR Installation Restoration Program</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		(IRP) managed by the Air Force Center for Environmental Excellence <i>ongoing</i>	
<b>Leaking Underground Storage Tanks (LUST)</b>		<ul style="list-style-type: none"> <li>• Complete Winton’s Food &amp; Fuel (Palmer) Pay-for-Performance remedial project <i>ongoing</i></li> <li>• Implement LUST Cooperative Agreement Work Plan <i>completed</i></li> </ul>	
<b>Participate with the Association of State and Territorial Solid Waste Management Officials (ASTSWMO)</b>		<ul style="list-style-type: none"> <li>• Serve as chair of the State/EPA Superfund Task Force Working with EPA and states on issues related to Superfund</li> <li>• Serve as chair of the Sediments Task Force working with EPA and states on issues related to evaluating and remediating contaminated sediments</li> <li>• Serve on the State Response and Brownfields Programs Operations Task Force working with EPA and the states on issues related primarily to Brownfields programs and implementing the new Brownfields Law</li> <li>• Serve on the Federal Facilities Training and Technology Transfer (T3) Focus Group tasked with improving partnership between state and federal agencies and producing issue papers to promote state interests on issues affecting environmental restoration at federal facilities</li> <li>• Serve on the Federal Facilities DSMOA Task Force working with DoD and the states on issues related to federal facilities</li> </ul> <p><i>All actions are ongoing</i></p>	
<b>Participate with the New England Waste Management Officials Association (NEWMOA)</b>		<ul style="list-style-type: none"> <li>• Continue to work with EPA and the other New England states on issues common to the region, including brownfields, institutional controls, and improving the quality of site characterization</li> </ul>	

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
		<i>ongoing</i>	
<p><b>Assist in Enhancing Homeland Security</b></p> <p>Participate in Planning, Preparedness and Response with Other State and Federal Agencies</p>		<ul style="list-style-type: none"> <li>Interface and coordinate planning and preparedness on Homeland Security matters with the US EPA, the Region I Regional Response Team (RRT), the US Department of Homeland Security, the Massachusetts National Guard Civilian Support Team (CST), the US Coast Guard (Providence and Boston), MEMA, the Massachusetts Department of Fire Services and its District Hazardous Material Response Teams, and other appropriate federal, military, state, and local authorities</li> <li>Provide field and technical support during Homeland Security incidents focusing on identifying and protecting environmental receptors and managing decontamination and other waste materials</li> </ul> <p><i>All actions are ongoing</i></p>	
<p><b>Facilitate Restoration and Redevelopment of Brownfields Properties</b></p> <p>Coordinate, facilitate, provide technical assistance and on-site coordination for Brownfields Redevelopment</p>	<p>Provide new grants to:</p> <p>Attleboro Berkshire Regional Planning Commission Boston Franklin Regional Council of Governments Montachusett Regional Planning Commission Norfolk County Pioneer Valley Regional Planning Commission Boston Redevelopment Authority Brockton Greenfield Marlborough</p>	<ul style="list-style-type: none"> <li>Promote and assist in the use of the Special Project Designation (SPD), a tool that provides increased flexibility on cleanup deadlines for certain types of projects</li> <li>Work with EOEA to implement the Environmental Justice Policy</li> <li>Hold bi-monthly meetings with regional coordinators</li> <li>Generate 12 monthly reports for the Commissioner</li> <li>Provide technical outreach to project proponents on regulatory issues, and promote the use of financial and liability incentives</li> <li>Lead monthly partner meetings with state and federal staff monthly</li> <li>Continue to track DEP brownfields involvement using time codes and other tools</li> <li>Provide letters of support to entities applying for EPA brownfields grant funding</li> </ul>	<ul style="list-style-type: none"> <li>Implement Urban Area Compliance Assurance</li> </ul> <p><i>WRO threatened to issue a lien on 13 sites and hire state contractors to perform the cleanups. All 13 responded, so no MassDEP action was necessary. CRO issued one NORA that resulted in an ACOP; cleanup work continues</i></p> <ul style="list-style-type: none"> <li>Conduct state-funded investigations/risk reduction activities at EOEA-designated municipally owned sites</li> </ul> <p><i>Completed one PCB Phase II/risk assessment at the Fall River/City</i></p>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	Mystic valley Development Commission New Bedford	<ul style="list-style-type: none"> <li>• Conduct four EPA funded brownfields site assessments using state contractors</li> <li>• Work with state partners toward developing an inventory of brownfields sites</li> <li>• Provide assistance to communities receiving cleanup grant funding through the EPA Cleanup Grant Program</li> <li>• Continue to provide assistance to communities that have received funding through the Brownfields Cleanup Revolving Loan Fund Program.</li> <li>• Provide support to the Office of Commonwealth Development and the Executive Office of Environmental Affairs on Brownfields Policy development and Transit-Oriented Development (TOD) discussions</li> </ul> <p><i>All actions are ongoing</i></p>	<p><i>Pier, Davol Street project</i></p> <ul style="list-style-type: none"> <li>• Assist Deputy Commissioner in planning/implementing the Brownfields Roundtable</li> </ul> <p><i>Offered staff assistance but project not implemented</i></p>
		<ul style="list-style-type: none"> <li>• Participate on the review panel for the Brown-fields Redevelopment Access to Capital Program</li> <li>• Promote the redevelopment of priority lien sites</li> <li>• Conduct pre-permit meetings in regions for brownfields project proponents as needed</li> <li>• Organize and speak at public outreach forums</li> </ul> <p><i>All actions are ongoing</i></p>	<ul style="list-style-type: none"> <li>• Target proactive outreach to 15 municipalities - <i>completed</i></li> <li>• Assist the AGO in reviewing 15 Covenant Not to Sue applications – <i>completed review on 20 applications</i></li> <li>• Implement up to 10 brownfields site assessments</li> </ul> <p><i>Implemented 5 assessments</i></p> <ul style="list-style-type: none"> <li>• Work with state partners toward developing an inventory of brownfields sites</li> </ul> <p><i>Developed separate inventory of technical assistance sites</i></p>
Implement Brownfields Cooperative Agreement	<ul style="list-style-type: none"> <li>• Provide DEP with \$1,368,049 in funding from the Brownfields Program</li> </ul>	<ul style="list-style-type: none"> <li>• Enhance the state's oversight and enforcement capabilities by implementing the eGov Project, implementing procedures to prioritize auditing and</li> </ul>	<ul style="list-style-type: none"> <li>• Implement 3 – 4 Brownfields Site Assessments (expected to include sites in Amesbury,</li> </ul>

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	<p>through a Brownfields State Response Program Cooperative Agreement issued under the new Brownfields law, (CERCLA, Section 128(a)).</p> <ul style="list-style-type: none"> <li>• Using this funding, MA DEP will: <ul style="list-style-type: none"> <li>○ Develop program guidance to address: asbestos in soil, monitored natural attenuation, risk assessment short forms for contamination.</li> </ul> </li> </ul>	<p>enforcement; reviewing LSP performance records, reviewing site audits, implement plans to address the "Non-responders"</p> <ul style="list-style-type: none"> <li>• Enhance public record of sites, as necessary, to ensure it meets requirements for continued funding</li> <li>• Perform Site Manager role for municipalities that need assistance implementing Brownfields Revolving Fund Loan and Brownfields Cleanup Grant projects</li> </ul> <p><i>All actions are ongoing</i></p>	<p>Whitman, and Ashland</p> <p><b>Implemented 8 brownfields site assessments</b></p> <ul style="list-style-type: none"> <li>• Begin surveying and inventorying Massachusetts brownfields sites</li> </ul> <p><b>Developed separate inventory of technical assistance sites</b></p>
Superfund Pre-remedial	<ul style="list-style-type: none"> <li>• Work with DEP through Superfund Pre-Remedial Cooperative Agreement (V98116401) that also includes Brownfield Site Assessment activities (the BSA portion of this cooperative agreement is a continuation of the activities funded under Superfund - prior to the new Brownfields authorization)</li> <li>• Assist DEP in reviewing Eligible Response Site List and providing feedback on EPA's proposed sites to be excluded from the</li> </ul>		

Key Strategies	2005 – 2006 Actions		MA DEP Outputs
	EPA NE	MA DEP	Milestone
	enforcement bar provision in the new Brownfields legislation		

<b>BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS</b>							
	<b>Multi Media (MM)</b>	<b>Single Media (SM)</b>	<b>Protocol C</b>	<b>Presence</b>	<b>Assessment</b>	<b>TOTAL PLANNED</b>	<b>ACTUAL</b>
<b>TOTAL FFY05 INSPECTIONS BY INSPECTION TYPE (excluding Solid Waste and Asbestos)</b>							
<b>Actual</b>	<b>596</b>	<b>301</b>	<b>89</b>	<b>244</b>	<b>443</b>	<b>1486</b>	
<b>Planned</b>	<b>439</b>	<b>200</b>	<b>87</b>	<b>358</b>	<b>380</b>	<b>1464</b>	
<b>INSPECTIONS BY INITIATIVE TYPE (note a particular visit to a facility may be counted in more than one initiative type c and include additional types of media specific inspections beyond MM, SM, Protocol C, Presence and Assessment)</b>							
<b>REASON FOR TARGETTING</b>							
<b>AIR SOURCES</b>							
Air Operating Permit	67	44		11		122	75
<u>ERP Dry Cleaner Major Equivalent – see note[1]</u>							
Report Review Results: Air Sources	22	4				26	28
RESM89 Monors	45	13				59	73
Air Permit Related		59				59	59
Stack Test Observations		23		105		128	116
Stage II	3			30		33	106
School bus idling				18		18	40

<b>BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS</b>							
	<b>Multi Media (MM)</b>	<b>Single Media (SM)</b>	<b>Protocol C</b>	<b>Presence</b>	<b>Assessment</b>	<b>TOTAL PLANNED</b>	<b>ACTUAL</b>
ERP Report Review Results				27		27	8
BAD ACTORS	6	5		9		20	27
UNIDENTIFIED		5				5	Included in other air categories*
Inspection Station Audits					150	150	150
<b>Minor Sources</b>							347
<b>Total Estimated Air Inspections</b>	<b>144</b>	<b>153</b>		<b>200</b>	<b>150</b>	<b>647</b>	<b>872</b>
<b>ASBESTOSs</b>		<b>360</b>			<b>50</b>	<b>410</b>	<b>529*</b>
<b>HAZARDOUS WASTE</b>							
Offsite Recyclers (ABC)	26	1				27	18
Large Quantity Hazardous Waste Generators	92	14				106	143
ERP Dry Cleaner LQG Equivalent – see note above							
HW, Acting Out of Status/Temp ID		6	6	5		17	12
Report Review Results: HW Sources	5					5	Included above
Transfer Storage and Disposal Facilities	13	2				15	13

<b>BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS</b>							
	<b>Multi Media (MM)</b>	<b>Single Media (SM)</b>	<b>Protocol C</b>	<b>Presence</b>	<b>Assessment</b>	<b>TOTAL PLANNED</b>	<b>ACTUAL</b>
Soils Processors		7				7	4
Marinas		20				20	21
Tank Removal Companies		10				10	5
<b>Small Quantity Generators</b>							132
<b>Total Estimated Hazardous Waste Inspections (including Waste Oil)</b>	<b>136</b>	<b>60</b>	<b>6</b>	<b>5</b>		<b>207</b>	<b>768</b>
<b>SOLID WASTE INSPECTIONS</b>		<b>591</b>				<b>591</b>	<b>713 *</b>
<b>INDUSTRIAL WW</b>							
IWW NPDES Majors, NPDES Minors, groundwater dischargers in drinking water protection and Listed Basins	21	21		17		59	46
Indirect Dischargers Identified as problems by IPP POTWs							20
Significant Industrial Users in NON IPP POTWS or identified as problems by POTWs	2	7				9	Included above
IWW Illegal Surface and Groundwater discharges to Drinking water protection areas					200	200	176

<b>BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS</b>							
	<b>Multi Media (MM)</b>	<b>Single Media (SM)</b>	<b>Protocol C</b>	<b>Presence</b>	<b>Assessment</b>	<b>TOTAL PLANNED</b>	<b>ACTUAL</b>
IWW Permit Related		11				11	Included above
Report Review Results IWW Sources	5	2		4	25	36	Included above*
<b>Total Estimated IWW Inspections</b>	<b>28</b>	<b>41</b>		<b>21</b>	<b>225</b>	<b>315</b>	<b>354</b>
<b>OTHER TARGETS</b>							
TURA	3					3	132
Auto Crushers	11					11	2
Boat Builders	8					8	7
Auto Dealerships				25	10	35	34
Plastics Manufacturers'	10					10	12
Auto Body Shops			20			20	10
Furniture Strippers				10		10	11
Adopt-a-town/unsewered areas	20		50			70	63
Selected Basins (Including Blackstone)	5	2	7	3		17	17
WWTPs/WTPs			20			20	20
BAD ACTORS	7	5	5			17	27
Outside the System and Closure	5		5	2	5	17	40
COMPLAINTS	41	47	10	72		170	122

<b>BWP FFY 05 PLANNED AND ACTUAL INSPECTIONS</b>							
	<b>Multi Media (MM)</b>	<b>Single Media (SM)</b>	<b>Protocol C</b>	<b>Presence</b>	<b>Assessment</b>	<b>TOTAL PLANNED</b>	<b>ACTUAL</b>
UNIDENTIFIED	22	33	10	20		85	Included in the difference between planned and actual mm and sm inspections
<b>Total Other Targets</b>	<b>132</b>	<b>87</b>	<b>127</b>	<b>132</b>	<b>15</b>	<b>493</b>	
<b>TOTALS ALL TARGETS</b>	<b>440</b>	<b>1292</b>	<b>133</b>	<b>358</b>	<b>440</b>	<b>2663</b>	

\*not included in total Multi Media, Single Media, Protocol C, Presence or Assessment Inspections

[1] EPA and DEP are currently developing a proposal that would allow EPA OECA and Region I to recognize DEP's work in the ERP dry cleaner sector. The ERP dry leaner sector work contributes toward DEP's hazardous waste and air quality compliance evaluation commitments under the 2005 PPA. The program uses strategic compliance assistance, mandatory facility self-certification, agency inspections and enforcement, and a performance-based measurement system to assure compliance with multimedia environmental requirements.. This approach will directly relate DEP's multi-media, innovative program work to meeting federal single medium program activity commitments.

*Performed Compliance Inspections by Type  
Enforcement Sensitive*

<b>Region / Program</b>	<b>MISC DW estimate</b>	<b>Sanitary survey (EPA*) estimate</b>	<b>UIC estimate</b>	<b>NPDES Major (EPA*)</b>	<b>NPDES Minor (EPA*)</b>	<b>MISC WPC estimate</b>	<b>Ground water **</b>	<b>Lg Sys Title 5 estimate</b>	<b>Wetlands estimate</b>	<b>Ch. 91 estimate</b>	<b>WMA reviews ***</b>	<b>Other discre- tionary</b>	<b>Row Totals:</b>
<b>NERO / BRP</b>	100	34	10	11	6	15	8	0	270	0	27	34	<b>515</b>
<b>SERO / BRP</b>	165	57	0	5	5	75	51	10	155	10	39	8	<b>580</b>
<b>CERO / BRP</b>	70	52	0	13	6	30	21	15	300	0	8	35	<b>550</b>
<b>WERO / BRP</b>	110	21	15	3	0	35	0	0	260	3	14	94	<b>555</b>
<b>Boston / BRP</b>	0	0	0	0	0	0	0	0	0	64	36		100
<b>Planned Totals:</b>	445	164	25	32	17	155	80	25	985	77	124	171	<b>2300</b>
<b>Actual Totals</b>	<b>340</b>	<b>164</b>	<b>47</b>	<b>65</b>	<b>31</b>	<b>176</b>	<b>156</b>	<b>38</b>	<b>1140</b>	<b>88</b>	<b>103</b>	<b>0</b>	<b>2348</b>

Estimates were originally based on previous year's experience.

The "OTHER" category builds in regional discretion. For example, a region may perform additional NPDES inspections.

\* PPA and work plan commitments. These inspections must be completed on time to fulfill DEP obligations.

\*\* Work plan commitment to inspect year 2 basins

\*\*\* WMA 5-year reviews still under negotiation with DEP regions. Once final, becomes a firm commitment

## Trends for Inspections and Penalties

DEP uses a variety of tools to identify noncompliance with environmental regulations. These include investigations by DEP's Environmental Strike Force, inspections, reviews of reports and monitoring data, audits, and follow-up to citizen complaints. The table below shows inspections and penalties for each of the past four fiscal years.

<b>Type of Inspection</b>	<b>2002</b> (10/1/01 to 9/30/02) Full Year	<b>2003</b> (10/1/02 to 9/30/03) Full Year	<b>2004</b> (10/1/03 to 9/30/04) Full Year	<b>2005</b> (10/1/04 to 9/30/05) Full Year
Environmental Strike Force Investigations (Cross-media inspections)	387	270	291	291
Multimedia inspections of industrial facilities (BWP FIRST)	730	584	730	701
Asbestos inspections (BWP ASB)	938	810	771	496
Solid Waste facility inspections* (BWP SW)	*	488	509	509
Other single media inspections of industrial facilities* (BWP SP MED)	984	177	274	200
Waste site inspections	1210	1470	1450	1446
Resource protection inspections	2199	1986	2530	2548
Resource protection report reviews	64,576	67,012	74,358	74,353
Certified laboratory inspections	37	19**	59	59
<b>Type of Result</b>				
Assessed Penalties and Referrals				
Penalties to waste management and industrial facilities -BWP (HLE Assessed Admin and Pan/Expan)	\$2,100,206	\$1,567,136	\$2,942,320	\$1,995,899

Penalties to parties responsible for waste sites –BWSC	\$523,588	\$2,020,413	\$1,254,288	\$1,139,100
Penalties to protect natural resources - BRP	\$595,252	\$381,063	\$1,535,400	\$1,285,450
Referrals to the Massachusetts Attorney General (MAAG)	12	25	40	30
MAAG settled cases, civil and criminal	23	19	20	29
MAAG penalties, civil and criminal (DEP Summary: Admin;Pan/Expan;STIPs/SUSP)	\$2,133,300	\$6,993,125	\$1,456,250	\$4,551,738
Referrals to US EPA and others (municipalities, district attorneys)	12	0	1	1
Waste Site Cleanup cost recovery revenues ****	\$1,356,329 (7/1/01-6/30/02)	\$561,241 (7/1/02-6/30/03)	\$1,233,625 (7/1/03-6/30/04)	\$1,038,929 (7/1/04-6/30/05)

\* Solid waste facility inspections became a separate reporting category in FFY2003

\*\*This number reflects a staffing shortage at WES during the first half of calendar year 2003. In July 2003 a staff member received certification to conduct laboratory inspections.

\*\*\*This number is unusually high because of a single \$5,900,000 penalty assessed to the Waters Corp. in July 2003.

\*\*\*\* These numbers are provided for the state fiscal year which runs from July 1<sup>st</sup> to June 30<sup>th</sup>.