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| C:\Users\mdtwitchell\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VXSAOSXK\DEC Logo 1.png | **Alaska Pollutant Discharge Elimination System (APDES) Program** **Capacity Building Summary****July 1 - December 31, 2012** **Final** |

**INTRODUCTION**

On October 31, 2008, the U.S. Environmental Protection Agency (EPA) approved the State of Alaska’s application to assume permitting and compliance and enforcement authority for wastewater discharges under the Clean Water Act**.** Alaska’s program is called the Alaska Pollutant Discharge Elimination System (APDES) Program. Program authority was transferred from EPA to the Alaska Department of Environmental Conservation (ADEC) in four phases over a four year period.

On October 31, 2008, the Alaska Department of Environmental Conservation (ADEC) began implementation of Phase I, which included domestic discharges, log storage facilities, seafood processing facilities, and hatcheries. ADEC began implementation of Phase II on October 31, 2009, including assumption of authority for federal facilities, storm water program, pretreatment program, and miscellaneous nondomestic discharges. On October 31, 2010, ADEC began implementation of Phase III, mining operations. The fourth and final phase of the transfer of authority was scheduled for October 31, 2011, but ADEC proposed and EPA granted an extension of Phase IV transfer for one year. Phase IV includes the oil and gas industry, munitions, cooling water intakes and discharges, and pesticides. On October 31, 2012 full NPDES program authority transferred from EPA to ADEC.

ADEC agreed to develop a Capacity Building Plan to ensure staff are qualified and trained to implement the APDES Program, as well as to provide biannual summaries of the capacity building efforts until full NPDES authority transferred to ADEC. Therefore, with full transfer of authority completed on October 31, 2012, this report is the final Capacity Building Summary.

**APDES PROGRAM HIGHLIGHTS – July 1, 2012 – December 31, 2012**

APDES program managers continued to implement Phases I – III and initiate implementation of Phase IV.

During this reporting period, ADEC issued

* two APDES individual permits,
* three APDES general permits,
* 1,789 authorizations under APDES general permits for mining activities,
* 320 authorizations under APDES storm water general permits,
* 85 authorizations under other APDES general permits, and
* 14 authorizations under EPA-issued NPDES general permits.

During this reporting period, ADEC conducted 83 inspections, issued 25 Notices of Violation, issued 29 compliance letters, and completed two formal enforcement actions that included penalties.

ADEC also finalized three Clean Water Act Section 401Certifications of Reasonable Assurance for EPA issued individual or general permits.

ADEC and EPA continue to participate in monthly teleconference and quarterly in-person meetings between managers and permitting and compliance staff to discuss the permitting process, status of draft permits, inspection schedules, and enforcement actions. The ADEC web pages continue to be updated with additional forms and applications made available to permittees and the public.

The flow of Discharge Monitoring Report data from ADEC’s permit tracking system to EPA’s data system is occurring. Discharge Monitoring Report data from facilities were flowing routinely in December 2012, with facility data continued to be added every month.

**APDES PROGRAM CAPACITY BUILDING WILL CONTINUE**

Although formal bi-annual reporting on ADEC’s capacity building efforts will no longer occur, ADEC will continue to actively build capacity and expertise in the APDES program. Activities anticipated in the near future include:

* Recruit and fill any vacancies in the Wastewater Discharge Authorization and Compliance and Enforcement Programs.
* Continue to update web pages so information is more accessible to the public and permittees.
* Continue to develop Internet-based online application tools.
* Work with EPA Region 10 to implement the [Clean Water Act Action Plan](http://www.epa.gov/oecaerth/civil/cwa/cwaenfplan.html).
* Provide mixing zone modeling training to Wastewater Discharge Authorization Program staff.
* Seek opportunities to conduct joint site visits or inspections with EPA staff.
* Provide penalty calculation training to Compliance Program staff.
* Provide updates and information regarding the APDES program at conferences.
* Develop cross-cultural training curriculum and reference materials for ADEC staff as part of the State Environmental Justice Cooperative Agreement grant (SEJCA).
* Develop Division of Water and APDES capacity building and outreach materials for tribal and rural governments as part of the SEJCA grant.
* Develop a regional tribal and rural community directory for ADEC staff as part of the SEJCA grant.

**Phases I, II, III and IV Implementation**

* Continue training compliance and enforcement staff on storm water inspections and implementation of best management practices.
* Participate in an EPA work group to track the development of new storm water regulations.
* Continue processing Phase I – IV permits.
	+ See ADEC Permit Issuance Plan <http://dec.alaska.gov/water/wwdp/pdfs/PIP.pdf>
* Continue to direct staff to attend training on technical issues specific to oil and gas.
* Continue to participate in Shale Oil Task Force.
* Continue to coordinate with EPA to ensure consistency between the federal and state Cook Inlet Oil and Gas Exploration General Permits and facilitate timely permit issuance.
* Strengthen ties with Department of Natural Resources (DNR) Oil and Gas Division and Coastal and Ocean Management to ensure that new permittees of oil and gas projects are aware of permitting requirements.
* Identify staff to attend planning meetings for projects in new state and federal lease areas that may require discharge permits.
* Actively participate in the Association of Clean Water Administrators meetings and teleconferences to track national changes in Clean Water Act implementation.

PERMITTING

ADEC updated the Permit Issuance Plan identifying the permits intended to be issued in 2012- 2013. The Permit Issuance Plan is available on ADEC’s website at <http://dec.alaska.gov/water/wwdp/pdfs/PIP.pdf>.

The tables below summarize the certifications, permits, and authorizations ADEC issued annually and bi-annually by calendar year.

|  |
| --- |
| **Annual Summary – ADEC- Issued Certificates, Permits, and Authorizations** |
| **Type of Issuance** | **1-Jan-06 -** | **1-Jan-07 -** | **1-Jan-08 -** | **1-Jan-09 -** | **1-Jan-10 -** | **1-Jan-11 -** | **1-Jan-12 -** |
| **31-Dec-06** | **31-Dec-07** | **31-Dec-08 a** | **31-Dec09 b** | **31-Dec-10** | **31-Dec-11** | **31-Dec-12** |
| **ADEC Issuances under NPDES** |
| 401 Certifications of EPA-Issued NPDES IPs c | 5 | 3 | 7 | 3 | 2 | 4 | 2 |
| 401 Certifications of EPA-Issued NPDES GPs d | 1 | 3 | 0 | 0 | 0 | 3 | 1 |
| Authorizations under NPDES GPs | 68 | 35 | 29 | 8 | 27 | 21 | 41 |
| **ADEC Issuances under APDES** |
| APDES IPs | NA e | NA | 0 | 3 | 3 | 6 | 4 |
| APDES GPs | NA | NA | 0 | 1 | 0 | 3 | 4 |
| Authorizations under APDES GPs | NA | NA | 0 | 105 | 0 | 0 | 568 |
| Mechanical Placer Mine Authorizations | NA | NA | NA | NA | 0 | 0 | 392 |
| Medium Suction Dredge Placer Mine Authorizations | NA | NA | NA | NA | 0 | 73 | 67 |
| Small Suction Dredge Placer Mine Authorizations | NA | NA | NA | NA | 0 | 1100 | 1773 |
| Construction Storm Water Authorizations | NA | NA | NA | 18 | 557 | 795 | 679 |
| MSGP Storm Water Authorizations | NA | NA | NA | 7 | 43 | 36 | 41 |
| **ADEC State Permits and Authorizations g** |
| State IPs | 17 | 10 | 3 | 0 | 1 | 0 | 2 |
| State GPs | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| Authorizations under GPs | 60 | 52 | 36 | 11 | 31 | 37 | 36 |
| **Total** | **151** | **104** | **76** | **156** | **664** | **2079** | **3610** |
| **Note**: This table is updated annually at the end of each calendar year.1. ADEC’s Primacy application was approved by EPA on October 31, 2008. No APDES permits were issued in November or December 2008.
2. Permit/authorization issuances for this period corrected from the previous Capacity Building Summary.
3. IP = Individual Permit
4. GP = General Permit
5. NA = Not applicable
6. Includes discharges to surface water, land, and underground injection control.
7. ADEC issued approximately 1773 new authorizations during 2012 under the small suction dredge placer mining general permit. The number of authorizations varies year to year depending on the interest, and is based on Fish Habitat Permit applications submitted to Alaska Department of Fish and Game.
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See Appendix A for bi-annual summaries from January 2006 – December 2008.

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| **Bi-Annual Summary – ADEC- Issued Certificates, Permits, and Authorizations**  |
| **Type of Issuance** | **1-Jan-09 -** | **1-Jul-09 -** | **1-Jan-10 -** | **1-Jul-10 -** | **1-Jan-11 -** | **1-Jul-11 -** | **1-Jan-12 -** | **1-Jul-12 -** |
| **30-Jun-09** | **31-Dec-09 b** | **30-Jun-10** | **31-Dec-10** | **30-Jun-11** | **31-Dec-11** | **30-Jun-12** | **31-Dec-12** |
| **ADEC Issuances under NPDES** |
| 401 Certifications of EPA-Issued NPDES IPs c | 0 | 3 | 0 | 2 | 3 | 1 | 0 | 2 |
| 401 Certifications of EPA-Issued NPDES GPs d | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 |
| Authorizations under NPDES GPs | 7 | 1 | 12 | 15 | 21 | 0 | 8 | 14 |
| **ADEC Issuances under APDES** |
| APDES IPs | 0 | 3 | 2 | 1 | 4 | 2 | 2 | 2 |
| APDES GPs | 0 | 1 | 0 | 0 | 2 | 1 | 1 | 3 |
| Authorizations under APDES GPs | 86 | 19 | 0 | 0 | 0 | 0 | 31 | 85 |
| Mechanical Placer Mine Authorizations | NA e | NA | 0 | 0 | 0 | 0 | 0 | 7 |
| Medium Suction Dredge Placer Mine Authorizations | NA | NA | 0 | 0 | 0 | 73 | 0 | 6 |
| Small Suction Dredge Placer Mine Authorizations | NA | NA | 0 | 0 | 0 | 1100 | 0 | 1776 |
| Construction Storm Water Authorizations | NA | 18 | 336 | 221 | 329 | 466 | 245 | 306 |
| MSGP Storm Water Authorizations | NA | 7 | 27 | 16 | 17 | 19 | 27 | 14 |
| **ADEC State Permits and Authorizations g** |
| State IPs | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 |
| State GPs | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| Authorizations under GPs | 2 | 9 | 16 | 15 | 28 | 9 | 41 | 9 |
| **Total** | **95** | **61** | **393** | **271** | **405** | **1674** | **359** | **2,216** |
| 1. ADEC’s Primacy application was approved by EPA on October 31, 2008. No APDES permits were issued in November or December 2008.
2. Permit/authorization issuances for this period corrected from the previous Capacity Building Summary.
3. IP = Individual Permit
4. GP = General Permit
5. NA = Not applicable
6. Includes discharges to surface water, land, and underground injection control.
7. ADEC issued approximately 1773 new authorizations during 2012 under the small suction dredge placer mining general permit. The number of authorizations varies year to year depending on the interest, and is based on Fish Habitat Permit applications submitted to Alaska Department of Fish and Game.
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1. **COMPLIANCE AND ENFORCEMENT ACTIVITIES**
2. **Inspector and Enforcement Credentials**

**State Credentials**

Several ADEC staff have State issued credentials. The Wastewater Discharge Authorization Program includes four staff members with Enforcement Officer credentials. The Compliance and Enforcement Program includes five staff members with Enforcement Officer credentials and three staff members with Inspector credentials. All new employees will be required to obtain Inspector credentials with senior staff also required to obtain Enforcement Officer credentials.

**EPA Credentials**

ADEC is no longer requiring Compliance and Enforcement Program staff to pursue or keep current EPA Inspector credentials, because ADEC is now the permitting and compliance authority for all facilities in Phases I – IV.

1. **Monitoring and Inspections**

In 2007, ADEC organized to form a Compliance and Enforcement Program. Compliance and enforcement staff perform all inspections of APDES facilities and initiate enforcement actions for noncompliance. ADEC staff review discharge monitoring reports for facilities issued an EPA NPDES permit and ADEC-issued APDES permits, as well as for facilities issued a state permit, and review quarterly and annual reports from dischargers (e.g. seafood processors, log transfer facilities, and mines). ADEC prepares an annual inspection schedule based on meeting national goals, staff input, and EPA discussions. Inspections are also conducted during routine or unscheduled visits to sites and facilities, in response to citizen complaints, and of unpermitted facilities.

Compliance and enforcement staff issued 25 Notices of Violation, 29 compliance letters, and two formal enforcement actions during the State fiscal year 2012.

The table below provides a summary of the number of inspections conducted by ADEC.

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| **ADEC Inspections Conducted** |
| **Facilities** | **1/1/06 - 12/31/06** | **1/1/07 - 12/31/07** | **1/1/08 -12/31/08** | **1/1/09 – 12/31/09** | **1/1/10 – 12/31/10** | **1/1/11 – 6/30/11** | **7/1/11 – 12/31/11** | **1/1/12 – 6/30/12** | **7/1/12 – 12/31/12** |
| APDES permitted facilities | NA a | NA | NA | 73 | 129 | 63 | 82 | 67 | 61 |
| NPDES permitted facilities | 56 | 36 | 24 | 27 | 4 | 1 | 0 | 0 | 21 |
| State permitted facilities b | 42 | 62 | 43 | 12 | 7 | 1 | 3 | 2 | 1 |
| **Total** | **98** | **98** | **67** | **112** | **140** | **65** | **85** | **69** | **83** |
| Notes:1. NA – not applicable
2. Inspections at state permitted facilities include unpermitted facilities, as well as facilities under state jurisdiction only
3. Inspections at NPDES permitted facilities encompass inspections of Phase IV facilities prior to Phase IV transfer
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1. **TRAINING**

 **Formal Training**

Individual staff participated in training specific to their areas of responsibility during the six months covered in this summary.

The table below provides a summary of the formal training received by staff in six month time periods since APDES Program approval.

| **FORMAL TRAINING** |
| --- |
| **DATE(S)** | **STAFF** | **COURSE / WORKSHOP TITLE** | **PROVIDER** |
| **July 1, 2012- December 31, 2012** |
| July 27, 2012 | 1 | Adult First Aid / CPR /AED | Red Cross |
| August 2012 | 1 | Certified Erosion Sediment Control Lead | IECA |
| August 2012 | 2 | Cooperating Agency Participation in Federal NEPA Projects | Environmental and Training Solutions |
| August 20, 2012 | 1 | Hypothesis Tests for Data with Non-detects | Practical Stats, LLC |
| August 27-31, 2012 | 2 | Hazardous Waste Operations General Site Worker | Alaska West Training Center |
| September 17, 2012 | 1 | Regression and Trend Analysis for Data with Nondetects | Practical Stats, LLC |
| September 20, 2012 | 1 | Pretreatment Industrial User Permitting Webinar | EPA |
| October 15, 2012 | 14 | ProUCL: the Unofficial Users Guide Webinar | EPA / Practical Stats, LLC |
| October 5, 10, and 11, 2012 | 11 | Wielding Regulatory Discretion | ADEC |
| October 22-26, 2012 | 2 | Introduction to Alaskan Small Wastewater Systems | NTL Alaska |
| October 24, 2012 | 1 | POTW Pretreatment Considerations and Permitting Programs for Hauled Waste Webinar | EPA |
| October 25-26, 2012 | 5 | Writing for the Workplace | Jim Hale |
| October 25-29, 2012 | 1 | GIS/Webmapping Training | ESRI |
| October 30-31, 2012 | 1 | Alaska Certified Erosion and Sediment Control Lead | Association of General Contractors |
| October 31, 2012 | 3 | Records and Information Management | State of Alaska Records and Information Management Service |
| November 5-6, 2012 | 4 | Standardized Reclamation Cost Estimator Workshop | Alaska Miners Association /SRK Consulting  |
| November 1, 2012 | 1 | Writing a Storm Water Pollution Prevention Plan | NTL Alaska |
| November 1, 2012 | 2 | Hazardous Waste Operations Refresher | Alaska Rural Water Association |
| **January 1, 2012- June 30, 2012** |
| February 26- March 2, 2012 | 1 | International Erosion Control Association (IECA) Annual Conference | IECA |
| March 2012 | 2 | Certified Inspector of Sediment and Erosion Control | CISEC |
| March 2012 | 1 | Designing and Reviewing Effective Sediment and Erosion Control Plans | IECA |
| March 1, 2012 | 7 | Environmental Crime Photography | ADEC |
| March 6, 2012 | 3 | Present Like a Pro | Guila Muir and Associates |
| March 8, 2012 | 8 | Meetings that Work: The Art of Facilitation | Guila Muir and Associates |
| March 12-14, 2012 | 26 | EPA Water Quality Standards Academy | EPA, Tetratech, and DEC |
| March 13-16, 2012 | 1 | CWA/NPDES National Technical Inspector Workshop | EPA HQ and Regions |
| March 14, 2012 | 2 | eDMR Mentoring Session | EPA |
| March 15, 2012 | 30 | Total Maximum Daily Loads (TMDLs) Training | DEC |
| March 21, 2012 | 2 | NetDMR Regulatory Training | EPA |
| March 29, 2012 | 3 | Electronic Reporting Rule | EPA |
| April 18, 2012 | 33 | Cross-cultural Awareness and Communication | DEC, with guest speakers |
| April 19, 2012 | 29 | Tribal Communications Protocol Training | DEC, in partnership with Yukon Kuskokwim Tribes |
| April 27, 2012 | 1 | Introduction to Alaska Small Wastewater Systems | NTL Alaska, Inc. |
| May 3, 2012 | 2 | Writing in the Workplace: the Basic Course | Jim Hale |
| May 4, 2012 | 2 | Analytical Writing: How to Think and Write at the Same Time | Jim Hale |
| May 29-Jun 1, 2012 | 1 | Exchange Network National 2012 Meeting | Exchange Network Leadership Council |
| June 2012 | 1 | ArcGIS Desktop II Training | ESRI |
| June 5, 2012  | 2 | Project Management | Fred Pryor Seminars |
| **July 1, 2011 - December 31, 2011** |
| Sept. 6-8, 2011 | 2 | Statistical Analysis of Groundwater Monitoring Data | Northwest Environmental Training Center |
| Sept. 19-23, 2011 | 36 | USEPA NPDES Permit Writers’ Course | EPA and Tetratech |
| Oct. 15-19, 2011 | 2 | Water Environment Federation Technical Exhibition and Conference | Water Environment Federation |
| Oct. 25-27, 2011 | 14 | Basic Environmental Investigations | Western States Project and ADEC |
| Oct. 31–Nov. 4, 2011 | 1 | Introduction to Alaska Small Wastewater Systems | NTL Alaska, Inc. |
| Nov. 8-11, 2011 | 6 | Alaska Miners Association 2011 Convention, Anchorage | Alaska Miners Association |
| November 10, 2011 | 4 | Mat-Su Salmon Science and Conservation Symposium | Mat-Su Basin Salmon Habitat Partnership |
| December 2, 2011 | 3 | Analytical Writing: How to Think and Write at the Same Time | Jim Hale |
| December 9, 2011 | 2 | The Art of Facilitation – Meetings that Work | Guilla Muir and Associates |
| **January 1, 2011 – June 30, 2011** |
| January 19, 2011 | 25 | Update on the Alaska Pollutant Discharge Elimination System, with a focus on Stormwater presented at the Alaska Association of Environmental Professionals meeting | William Ashton |
| January 26, 2011 | 2 | Wastewater: Treatment and Regulations presented at the DEC 2011 Drinking Water Engineer’s Annual Meeting | Jim MacInnis, P.E. |
| January 31, 2011 | 1 | Clean Water Act with a focus on Stormwater | William Ashton |
| Jan 31-Feb 4, 2011 | 2 | NPDES Permit Writer’s Course | EPA and Tetratech |
| February 3-4, 2011 | 4 | Troubleshooting for Wastewater Lagoons | Alaska Rural Water Association |
| March 1-3, 2011 | 2 | Alaska Pipeline Project Technical Workshop | Alaska Pipeline Project |
| March 3-5, 2011 | 1 | Strengthening Institutions: Strategies for cooperative management in the marine environment of the Beaufort and Chukchi Seas Workshop | University of Alaska |
| March 7-11, 2011 | 1 | Academy for Supervisors | State of Alaska |
| March 15, 2011 | 3 | Oil & Gas 101: ConocoPhillips Alaska Overview | ConocoPhillips Alaska |
| March 22-23, 2011 | 1 | ICIS-NPDES data entry | Amber Bennett, DEC |
| April 4-6, 2011 | 2 | Alaska Water Resources Association 2011 Annual Conference | Alaska Water Resources Association |
| April 8, 2011 | 2 | Writing for the Workplace | Jim Hale |
| April 15, 21, 28 and May 3,5,6,12, 2011 | 1 | Defining Risk in Arctic Coastal and Offshore Resource Development: Perspectives and International Standards | University of Alaska North by 2020 Forum |
| April 28, 2011 | 5 | Project Management for Capital Projects | ConocoPhillips |
| May 10-12, 2011 | 5 | Northern Latitudes Mining Reclamation Workshop | DNR Mining Land and Water |
| May 11, 2011 | 6 | Short Course on Mitigation of Metal Leaching and Acid Rock Drainage | William Price - CANMET |
| May 17, 2011 | 2 | Breaking Through Conflict | Glaser & Associates, Inc |
| May 25-26, 2011 | 3 | Technical Presentation of Underground Coal Gasification | LINC Energy |
| June 8, 2011 | 1 | Invasive Species Training | Alaska Natural Heritage Program |
| June 14-15, 2011 | 5 | Offshore Discharge Criteria Evaluation for Chukchi and Beaufort Seas | EPA Region 10 |
| June 14-15, 2011 | 2 | CORMIX training | Portland State University |
| June 28-30, 2011 | 32 | Whole Effluent Toxicity Training | EPA and Tetratech |
| June 29, 2011 | 1 | Meetings that Work: The Art of Facilitation | Guila Muir |
| **July 1, 2010 – December 31, 2010** |
| July 7, 2010 | 1 | Cultural Awareness Workshop, Anchorage | Alaska Native Heritage Center |
| September 16, 2010 | 2 | Technical Writing, Anchorage | Professional Writing Workshops |
| September 27, 2010 | 1 | Pesticides General Permit Meeting, Washington, D.C.  | EPA Headquarters |
| October 26, 2010 | 1 | Alaska Association of Harbormasters and Port Administrators 2010 Conference, Wrangell | Alaska Association of Harbormasters and Port Administrators |
| October 26, 2010 | 2 | UAA School of Engineering Graduate Certificate program for Environmental Regulation and Permitting, Anchorage | University of Alaska-Anchorage |
| October 27, 2010 | 21 | Pretreatment Program, Anchorage | DEC and EPA Region 10 |
| October 28, 2010 | 18 | Advanced Permit Writers’ Training, Anchorage | DEC and EPA Region 10 |
| November 1-2, 2010 | 1 | Second International Congress on Seafood Technology, Anchorage | University of Alaska-Anchorage |
| November 1-2, 2010 | 2 | CORMIX Mixing Zone Model: CORMIX Training, Portland,  | MixZon, Inc. |
| November 3-5, 2010 | 5 | Alaska Miners Association 2010 Convention, Anchorage | Alaska Miners Association |
| November 1-5, 2010 | 8 | Introduction to the Clean Water Act, Webcast | EPA  |
| **January 1, 2010 – June 30, 2010** |
| January – June, 2010 | 2 | UAA School of Engineering Graduate Certificate program for Environmental Regulation and Permitting, Anchorage | University of Alaska-Anchorage |
| May 12, 2010 | 21 | Pretreatment Program, Anchorage | DEC and EPA Region 10 |
| May 13, 2010 | 18 | Advanced Permit Writers’ Training, Anchorage | DEC and EPA Region 10 |
| May 10-13, 2010 | 1 | Second International Congress on Seafood Technology, Anchorage | University of Alaska-Anchorage |
| June 15-16, 2010 | 2 | CORMIX Mixing Zone Model: CORMIX Training, Portland,  | MixZon, Inc. |
| **July 1, 2009 – December 31, 2009** |
| July 27-31, 2009 | 3 | ICIS & PCS National Conference, McLean, VA | EPA |
| August - December 2009 | 1 | Environmental Law, Regulations, and Permitting, Anchorage | University of Alaska Anchorage |
| August 18-20, 2009 | 1 | Community Involvement Training Conference 2009, Seattle | EPA |
| August 19, 2009 | 1 | Using Collaboration to Overcome Barriers, Seattle | EPA |
| August 20, 2009 | 1 | Overcoming Barriers to Effective Community Involvement: A Citizen Participant, Seattle | EPA |
| August 20, 2009 | 1 | Cultural Sensitivity Training: Opportunities to Connect with Native American Communities, Seattle | EPA |
| August 24-25, 2009 | 2 | Mining Workshop, Anchorage | U.S. Forest Service |
| August 31, 2009 | 2 | Basic Regulations Class for State Agencies, Juneau | AK Depart. of Law |
| September 14, 2009 | 3 | Introduction to Media, Juneau and Anchorage | ADEC |
| September 21-24, 2009 | ? | Pretreatment Workshop, Kenai, Seward, and Soldotna | Tetra Tech |
| October 5, 2009 | 34 | Writing for the Workplace, Anchorage | Professional Writing Workshops |
| October 5-7, 2009 | ? | Introduction to Environmental Law Enforcement, Anchorage | Western States Project |
| October 6, 2009 | 42 | 2009 APDES Implementation Workshop, Anchorage | ADEC |
| October 8, 2009 | 24 | Environmental Justice Workshop, Anchorage and Fairbanks | EPA Region 10 |
| October 9, 2009 | 6 | Tactical Communications/Verbal Judo, Anchorage | Western States Project |
| November 2-6, 2009 | 1 | Introduction to Small Wastewater Systems (Collection and Treatment Provisional Certification), Fairbanks | Alaska Technical/ Training Assistance Center |
| November 2-6, 2009 | 3 | Alaska Miners Association Conference, Anchorage | Alaska Miners Association |
| December 2-3, 2009 | 11 | Conference on Water Quality Standard Antidegradation Policy, Anchorage | ADEC |
| **January 1, 2009 – June 30, 2009** |
| January 14-15, 2009 | 1 | Pacific Ballast Water Group Meeting: Vessel ballast water discharge; EPA Vessel General Permit, Seattle | Pacific Ballast Water Group |
| February 5, 2009 | 1 | Current Issues in Storm water Regulation, Anchorage | Lorman Educational Services |
| February 10, 2009 | 12 | MS Word/Excel 2007 | Vocational Training & Resource Center |
| February 17, 2009 | 4 | Navigating the Discharge Results and Online Permit System (DROPS) | ADEC |
| March-April, 2009 | 28 | Positive Leadership-Inclusive Management, Anchorage, Fairbanks, Juneau | ADEC |
| April 2, 2009 | 4 | Storm water Management in Juneau: State Primacy, Municipal Programs, and Public Outreach | ADEC & City-Borough of Juneau |
| April 6–10, 2009 | 2 | USEPA NPDES Permit Writers’ Course, Portland | EPA |
| April 27- 30, 2009 | 16 | Mixing Zone Modeling Training (CORMIX), Anchorage | MixZon, Inc. |
| June 10–11, 2009 | 2 | Forum on Surface Discharging Wastewater Systems, Chicago | EPA |
| June 23, 2009 | 2 | Peer to Supervisor Management Training Workshop | State of Alaska |
| **July 1, 2008 – December 31, 2008** |
| July 6–10, 2008 | 1 | EPA NPDES Permit Writers’ Conference, WV | EPA |
| August 7, 2008 | 10 | Quality Assurance and Quality Control | ADEC |
| August 18–20, 2008 | 1 | Association of State and Interstate Water Pollution Control Agencies (ASIWPCA) annual meeting, Providence, RI | ASIWPCA |
| August 18-21, 2008 | 1 | National Pretreatment Coordinators Meeting, Charleston, WV | EPA |
| September 3-5, 2008 | 5 | Applied Hydrogeologic Site Characterization & Monitoring Well Construction for Environmental Professionals | Northwest Environmental Training Ctr. |
| September 9-11, 2008 | 1 | Region 10 Pretreatment Coordinators meeting, Vancouver, WA | EPA Region 10 |
| October 14-15, 2008 | 50 | APDES Implementation Workshop. Training for permitting, compliance and enforcement, and administrative program managers and staff in preparation for Primacy. Anchorage | ADEC |
| October 17-23, 2008 | 1 | Tailings and Mine Waste ’08 conference and workshop | Colorado State University |
| October 17-24, 2008 | 1 | WEFTEC Annual Technical Exhibition and Conference, Chicago | Water Environment Federation |
| October 26-28, 2008 | 2 | State Review Framework, Seattle, WA | EPA Region 10 |
| October 26-29, 2008 | 2 | Introduction to Criminal Environmental Investigations, Salt Lake City, UT | Western States Project |
| October 27-31, 2008 | 2 | USEPA NPDES Permit Writers’ Course, VA | EPA |
| November 14, 2008 | 1 | Introduction to Storm water Treatment | Municipality of Anchorage |
| November 20-21, 2008 | 2 | Storm water Treatment: Designing to Meet Performance Goals | Resource Planning Associates |
| **January 1, 2008 – June 30, 2008** |
| March 3-5, 2008 | 6 | BEN/ABLE Training | National Environmental Training Institute |
| March 2008 | 41 | Wielding Regulatory Discretion | ADEC |
| March 10, 2008 | 9 | CPR/First Aid | Red Cross |
| March 11-13, 2008 | 32 | Systematic Development of Informed Consent | Institute for Participatory Magmt/Planning |
| March 21, 2008 | 17 | Writing for the Workplace | Jim Hale |
| March 25-28, 2008 | 1 | Environmental Chemistry | Northwest Environmental Training Ctr. |
| April 14-15, 2008 | 4 | Certified Erosion & Sediment Control Lead Course, Anchorage | Assoc. General Contractors |
| April 22-25, 2008 | 36 | Facilities and Inspector training – Phase I. Training to inspect Phase I facilities scheduled to transfer to ADEC: domestic wastewater, log transfer facilities, seafood processing, and hatcheries. | ADEC |
| June 3-4, 2008 | 4 | Storm water Training | ADEC/DOTPF |
| **July 1, 2007 – December 31, 2007** |
| October 2007 | 24 | Introduction to Criminal Investigations | Western States Hazardous Waste Project |
| October 29, 2007 | 1 | ICIS-NPDES and Reporting – Data Steward participated in this training with EPA Region 10 staff in Seattle. | EPA |
| December 4, 2007 | 35 | Water Division Cross Program Training – Staff from Wastewater Discharge, Village Safe Water, Remote Maintenance Workers, Municipal Grants/Loans, and Compliance Program. NPDES Primacy included in training. |  |
| **January 1, 2006 – June 30, 2007** |
| April 2006 | 39 | Basic Inspector Training Course | EPA |
| May 2006 | 35 | USEPA NPDES Permit Writers’ Course | EPA |
| February 2007 | 41 | Water Quality Standards Academy | EPA |
| February 2007 | 2 | NPDES Technical Inspector training | EPA |
| March 2007 | 1 | Mixing Zone Modeling Training (CORMIX) | Portland State University |
| April 2007 | 17 | Statistical Applications for Natural Conditions Water Quality Standard | ADEC/Tetra Tech |
| April 11 – 12, 2007 | 2 | Soil Erosion Control Training | Int’l Erosion Control Assn |

**Informal Training**

Training in the use of the APDES data management system is provided to new staff during orientation, and desk side training is available to all staff on an as-needed basis.

Cross training the permitting and compliance and enforcement staff is ongoing and will continue.

**IV. WORK SHARE AGREEMENTS AND PARTNERSHIPS**

No formal work share agreements or partnerships were formed during this reporting period; however, DEC and EPA Region 10 staff entered into one informal work share agreement. In preparation for the Phase IV transfer of authority, EPA and ADEC permit writers worked together to reissue a general permit for Beaufort Sea Oil and Gas Exploration and are currently working together to reissue a Cook Inlet Oil and Gas Exploration general permit.

**V. Intergovernmental Personal Agreements and Job Shadows**

ADEC has used Intergovernmental Personal Agreements (IPAs) and Job Shadows to enhance training for staff. Four job shadows were conducted during this reporting period (July – December 2012), and an additional job shadow was conducted during the reporting period (January – June 2012) but was not previously reported.

| **INTERPERSONAL AGREEMENTS (IPAs) & JOB SHADOWING** |
| --- |
| **DATE(S)** | **LOCATION** | **STAFF / MISSION(S)** | **PROVIDER** |
| **January 1, 2012 – December 31, 2012** |
| April 2012 | Anchorage/Mat-Su | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at a construction general permitted site  | EPA Region 10 |
| July 2012 | North Slope | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at oil and gas production facilities.  | EPA Region 10 |
| July/August 2012 | Oregon | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at a municipal separate storm water system.  | EPA Region 10 |
| October 2012 | Dutch Harbor | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at two shore based seafood processing facilities operating under an EPA consent decree and at 12 offshore processing vessels operating under the EPA offshore seafood processing GP. | EPA Region 10 |
| September 2012 | North Slope | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at four oil and gas platforms. | EPA Region 10 |
| **January 1, 2011 – December 31, 2011** |
| August 2011 | Cook Inlet | One ADEC staff job shadowed with EPA compliance and enforcement staff to conduct inspections at oil and gas platforms. | EPA Region 10 |
| **January 1, 2009 – December 31, 2009** |
| June 2009 | North Pole | One ADEC staff job shadowed with EPA compliance and enforcement staff on pretreatment program. | EPA Region 10 |
| **January 1, 2008 – December 31, 2008** |
| February 2008 | Seattle | One DEC staff worked with EPA on seafood processing permits. | EPA Region 10 |
| April 2008 | Anchorage/Mat-Su | One DEC staff accompanied EPA inspectors on construction general permit compliance inspections in Anchorage/Matanuska-Susitna Borough | EPA Region 10 |
| October 27-31, 2008 | Seattle | One DEC staff job shadowed EPA staff to gain experience with ICIS-NPDES and RIDE requirements. | EPA Region 10 |
| **January 1, 2007 – December 31, 2007** |
| February 2007 - February 2008 | Anchorage | Loaner staff located in Anchorage Division of Water for 11.5 months: advice/direction to help develop compliance and enforcement standard operating procedures. | Minnesota Pollution Control Agency |
| May 2007 | Idaho | One DEC staff job shadowed with EPA during inspections at 15 Idaho facilities. | EPA Region 10 |
| **January 1, 2006 – December 31, 2006** |
| November 2006 | Washington | One DEC staff job shadowed in the storm water program conducting and documenting inspections and technologies. 2 weeks. Presented training/results to staff upon return. | WA Dept of Ecology |
| November 2006 - November 2007 | Anchorage | IPA: developed Reasonable Potential Analysis guidance, reviewed/commented on NPDES application, reviewed/interpreted federal regulations. | EPA Region 8 |
| Fall 2006 | Anchorage | Loaner staff: accompanied staff on inspections of construction sites for compliance with storm water general permit, guidance on inspection report writing. | WA Dept of Ecology |
| Winter 2006 - Spring 2007 | Fairbanks | Loaner staff: drafted Inspection Guidance for staff, NPDES permit writing training. | WI Dept. Natural Resources |

**VI. APDES PROGRAM OUTREACH**

ADEC continues to provide outreach on the APDES program to the regulated community and the general public. Outreach included presentations to federal and state agencies, municipalities, professional organizations, and students.

| **APDES Program Outreach** |
| --- |
| **Date**  | **Event**  | **Topic** |
|  |
| July 31, 2012 | Alaska Shale Oil and Gas Conference Agenda | Shale oil and gas projects and challenges in Alaska |
| September 13, 14, 2012 | The Water-Energy Nexus | Acquisition, Use, and Disposal of Water for Energy and Mineral Development |
| September 17-20, 2012 | Alaska Oil and Gas Congress | A variety of topics related to oil and gas project sand issues in Alaska |
| November 28, 2012 | Informational Teleconference for AKG57100 Permittees | Considerations and issues for potential permittees that are considering applying for coverage under AKG57100. |
| September 28-October 3, 2012 | 85th Annual Water Environment Federation Technical Exhibition and Conference. | World’s largest annual water quality conference exhibition with a focus on growing innovation in water, enriching expertise among water processions, and raising the value of water. |
| November 5-11, 2012 | Alaska Miners Association 2012 Annual Convention and Trade Show | The business of mining overviews of mine reclamation issues, concerns, and responsibilities for exploration and mining operations in Alaska.  |
| November 30, 2012 | Strategic & Critical Minerals Summit | Challenges and opportunities of strategic and critical mineral exploration, development, and processing. |
| **January 1, 2012 – June 30, 2012** |
| January 12, 2012 | Yukon River Inter-Tribal Watershed Council (YRITWC)/DEC Meeting | YRITWC’s environmental monitoring programs, community outreach efforts, and ways to improve coordination |
| January 25, 2012 | Association of Clean Water Administrators (ACWA) Permitting and Compliance Teleconference | Update on state National Pollutant Discharge Elimination System pesticide permit programs and EPA Pesticide General Permit |
| February 7, 2012 | Alaska Forum on the Environment | Tribal Government & Community Involvement in Agency Decision Making; Exploring APDES Permits & Effective Public Involvement |
| February 12-15, 2012 | 63rd Annual Pacific Technologists Conference Anchorage | The Clean Water Act, Alaska Pollutant Discharge Elimination System permit program, and status of permits related to the seafood processing industry |
| Feb 26-Mar 2, 2012 | International Erosion Control Association (IECA) Annual Conference | Educational event for the erosion, sediment control, and storm water industry. |
| February 28-29, 2012 | Seafood Processor Workshops | APDES permitting requirements for the Seafood Sector in Alaska, compliance assistance, and Q&A regarding seafood processing waste permits |
| March 2012 | CPAI Oil and Gas 101: Remediation and Rehabilitation | Introduction to remediation and rehabilitation for oil and gas exploration, development, and processing. |
|  | CPAI Oil and Gas 101: Offshore Environmental Studies | Introduction to offshore environmental studies to support oil and gas exploration, development, and processing |
| March 9, 2012 | Alaska Miners Association Breakfast | Environmental Monitoring at Alaska Hard Rock Mines |
| March 20-22, 2012 | 23rd Biennial Alaska Miners Association Conference | Environmental Monitoring at Alaska Hard Rock Mines; Waste Streams from Mines, DEC Waste Management and Wastewater Discharge Permits for Mines; APDES Inspections-What Types of Inspections are Happening & What to Expect |
| March 20, 2012 | Seafood Products Association 74th Annual Conference | APDES Permitting Program |
| April 13, 2012 | Alaska ComFish Conference 2012 | Wastewater Discharge Permitting and the Public Involvement Process |
| April 19, 2012 | Regulation of Water in Alaska | Assumption of State primacy for CWA permitting, storm water management and regulation, anti-degradation policy in permitting, recent permit litigation, and wetlands permitting |
| April 24-25, 2012 | Seafood Processor Workshops | APDES permitting requirements for the Seafood Sector in Alaska, compliance assistance, and Q&A regarding seafood processing waste permits |
| April 25, 2012 | Interagency (DEC WWDA and C&E, DNR, DFG, BLM, and USACE) Placer Mining Meeting | Placer mining activities for the season, updates to the Annual Placer Mining Application form, and centralizing DNR as the primary point of contact and coordination of agency permitting activities |
| May 1, 2012 | EPA Region 10 Tribal Leaders Summit | Incorporating Traditional Ecological Knowledge (TEK) into Environmental Decision Making |
| May 9, 2012 | DEC/EPA Meeting with Alaska Oil and Gas Association | EPA’s draft National Pollutant Discharge Elimination System Beaufort and Chukchi Seas General Permits, proposed schedules for the Cook Inlet General Permits, and permitting authority transfer for oil and gas wastewater permitting  |
| May 9, 2012 | 52nd Annual Alaska Water Wastewater Management Association Statewide Conference | APDES Permits – Post Issuance |
| May 11, 2012 | Alaska Power Association Regulations Committee Workshop | Construction General Perm8it, Multi-Sector General Permit, and storm water pollution prevention plans |
| **July 1, 2011 – December 31, 2011** |
| October 20, 2011 | Alaska Water Wastewater Management Association – Southeast Conference | Discharge Monitoring Reports |
| October 25, 2011 | Alaska Rural Water Association – Annual Training Conference | Update on Alaska Pollutant Discharge Elimination System |
| November 9, 2011 | Alaska Tribal Conference on Environmental Management | Alaska Wastewater Discharge Permitting and Tribal Communications |
| November 10, 2011 | Alaska Miners Association | Overview of State’s Clean Water Act Antidegradation Policy |
| **January 1, 2011 – June 30, 2011** |
| January 19, 2011 | Alaska Association of Environmental Professionals meeting | Update on the Alaska Pollutant Discharge Elimination System, with a focus on Stormwater |
| January 26, 2011 | DEC 2011 Drinking Water Engineer’s Annual Meeting | Wastewater: Treatment and Regulations |
| January 31, 2011 | UAA Graduate Course on the Clean Water Act | Stormwater |
| February 7, 2011 | UAA graduate Environmental Science class | Clean Water Act |
|  March 4, 2011 | Yukon River Intertribal Watershed Council Meeting | Wastewater discharge permitting |
|  March 8, 2011 | Alaska Native Tribal Health Consortium Meeting | APDES permitting in rural Alaska, mixing zones, drinking water backwash general permit, small domestic general permits |
| June 16-17, 2011 | Public Hearings and meeting with Native Village of Barrow sponsored by EPA | Offshore oil and gas exploration NPDES discharge permits |
| **July 1, 2010 – December 31, 2010** |
| October 26, 2010 | Alaska Association of Harbormasters and Port Administrators 2010 Conference, Wrangell | Storm water Program and Alaska Construction General Permit |
| November 3, 2010 | Associated General Contractors Annual Conference | Alaska Construction General Permit |
| November 2, 2010 | Alaska Miners Association 2010 Conference, AMA Short Course: Mining & Fisheries, Anchorage | Permitting, Water Quality Standards, and Mining |
| **January 1, 2010 – June 30, 2010** |
| February 8, 2010 | UAA School of Engineering Graduate Certificate Program for Environmental Regulation and Permitting, Anchorage | APDES Permitting & Alaska Water Quality Standards |
| February 23, 2010 | Road & Fish Passage Projects Environmental Control Meeting, Palmer, AK | APDES Program and Storm water |
| February 25-26, 2010 | EPA’s New Construction Site Storm water Discharge limits and BMPs Available to Achieve Them, Anchorage  | APDES Program and Storm water |
| May 3-5, 2010 | Alaska Water/Wastewater Management Association 50th Annual Conference, Sitka, AK | APDES Program update |
| **July 1, 2009 – December 31, 2009** |
| July 14, 2009 | Federal Facilities Outreach Meeting, Anchorage | ADEC-Federal agency coordination for APDES permitting |
| October 17, 2009 | American Institute of Professional Geologists – Alaska Section | APDES Phase II and Storm Water Permitting |
| October 20, 2009 | Alaska Association of Harbormasters and Port Administrators | APDES Phase II and Storm Water Permitting |
| October 21, 2009 | City and Borough of Kodiak, Contractors and Engineers  | APDES Phase II and Storm Water Permitting |
| November 3, 2009 | Statewide Construction Managers Meeting, Alaska Department of Transportation & Public Facilities, Juneau | Storm water Permitting and Compliance |
| November 11, 2009 | Fish Hatchery Managers Meeting, Alaska Department of Fish & Game, Anchorage | APDES Fish Hatchery General Permit |
| November 13, 2009 | Associated General Contractors – Alaska Section Annual Meeting | APDES Phase II and Storm Water Permitting |
| November 18, 2009 | Alaska Association of Environmental Professionals | APDES Phase II and Storm Water Permitting |
| December 2-3, 2009 | Conference on Water Quality Standard Antidegradation Policy, ADEC, Anchorage | ADEC WQS Antidegradation Policy |
| **January 1, 2009 – June 30, 2009** |
| February 2 and 5, 2009 | Alaska Forum on the Environment, Anchorage | Co-presentations with EPA Region 10 |
| February 2, 2009 | University of Alaska Anchorage graduate engineering/environmental seminar, Anchorage | APDES Program |
| February 5, 2009 | Current Issues in Storm water Regulation, seminar hosted by Lorman Education Services, Anchorage | ADEC’s Role and Submittal Requirements for Projects, Facilities and Activities With Storm water Discharges |
| March 3, 2009 | Presentation to the U.S. Army Corps of Engineers and Municipality of Anchorage Department of Public Works | Role of ADEC in NPDES Storm water in Compliance, Inspections, and Enforcement, current status and expected changes due to Primacy |
| March 19, 2009 | AK Department of Transportation & Public Facilities Central Region Environmental Expo, Anchorage | APDES Primacy of the Storm water Sector and the State’s Role in Compliance, Inspections, and Enforcement |
| March 24, 2009 | Matanuska-Susitna Borough Storm water Workshop | ADEC, Primacy, and the State’s role in compliance, inspections, and enforcement |
| March 25, 2009 | Call-in workshop for statewide and out-of-state participants by EPA Region 10 and ADEC, Anchorage | NPDES Multi-Sector General Permit for industrial storm water discharges |
| March 25, 2009 | Workshop for U.S. Fish & Wildlife Service, National Marine Fisheries Service, and ADEC Wastewater staff, developed and coordinated by ADEC program managers, Anchorage | APDES Program and coordination with Federal fish and wildlife agencies during permitting |
| March 26, 2009 | ADEC and EPA Region 10 workshop, Anchorage | NPDES Multi-Sector General Permit for industrial storm water discharges |
| April 2, 2009 | Storm water workshop jointly presented by the City & Borough of Juneau, ADEC Storm water Program, and Juneau Watershed partnership | Storm water management in Juneau, APDES, municipal programs and public outreach |
| April 27, 2009 | ADEC presentation to U.S. Army Corps of Engineers, Fairbanks | Role of ADEC in NPDES Storm water in Compliance, Inspections, and Enforcement, current status and expected changes due to Primacy |
| May 5, 2009 | ADEC presentation to Alaska Water/Wastewater Management Association, Anchorage | Overview of APDES Program |
| June 25, 2009 |  ADEC-sponsored meeting with the U.S. Fish & Wildlife Service and the National Marine Fisheries Service, Anchorage | APDES 2009 Permit Issuance Plan |
| June 29, 2009 | ADEC participated in municipality-sponsored work session, Valdez | On-site wastewater systems |
| **July 1, 2008 – December 31, 2008** |
| May - July 2008 | EPA Tribal Consultations in Dillingham, Sitka, Galena, and Bethel | EPA's Government to Government consultation on ADEC's Primacy application with DEC participation |
| July 21-23, 2008 | EPA-ADEC public meetings / hearings - Fairbanks, Juneau, and Anchorage | ADEC's NPDES Primacy Application |
| September 25, 2008 | Air and Waste Management Association, Anchorage | APDES Primacy Program |
| October 10, 2008 | Yukon River Intertribal Watershed Council, Fairbanks | Wastewater Issues in the Yukon Watershed |
| October 15, 2008 | Public Information Meeting, Anchorage | Seafood NPDES General Permit |
| October 21, 2008 | Army Western Regional Environmental Office | How APDES Program will impact federal facilities in Alaska, meeting |
| November 5-7, 2008 | Alaska Miners Association | Presentations on storm water, water quality monitoring, and compliance |
| November 12, 2008 | Alaska Board of Forestry, Palmer | Log transfer Facility General Permits under APDES |
| November 12, 2008 | Associated General Contractors, Anchorage | NPDES Primacy, Construction and Development of Effluent Limit Guidelines |
| November 19-20, 2008 | Resource Development Council, Anchorage | APDES Program, ADEC information booth |
| December 3-4, 2008 | Environmental Enforcement Seminar, Anchorage | APDES Permitting Process, Oversight, and Violation Criteria |
| December 10-11, 2008 | Alaska Water/Wastewater Management Association, Anchorage and Fairbanks | NPDES-APDES Primacy Transition |

**VII. RECRUITMENT AND RETENTION**

**Recruitment**

ADEC has 46 full time equivalent staff dedicated to the APDES Program. ADEC continues to fill positions as they become vacant.

**Retention**

ADEC has undertaken a department-wide effort to improve employee retention, including enhancing communication, providing training and professional development opportunities, and working within the parameters of the collective bargaining system to increase salaries.

APPENDIX A

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| **Bi-Annual Summary - ADEC- Issued Certificates, Permits, and Authorizations** |
| **January 2006 through December 2007** |
| **Type of Issuance** | **1/1/06 -6/30/06** | **7/1/06 - 12/31/06** | **1/1/07 - 6/30/07** | **7/1/07 -12/31/07** | **1/1/08 -6/30/08** | **7/1/08 -12/31/08 a** |
| **ADEC Issuances under APDES** |
| 401 Certifications of EPA-Issued NPDES IPsa | 4 | 1 | 0 | 3 | 2 | 5 |
| 401 Certifications of EPA-Issued GPsb | 1 | 0 | 3 | 0 | 0 | 0 |
| Authorizations under NPDES GPs | 45 | 23 | 22 | 13 | 23 | 6 |
| **ADEC Issuances under APDES** |
| APDES IPs | NAc | NA | NA | NA | NA | 0 |
| APDES GPs | NA | NA | NA | NA | NA | 0 |
| Authorizations under APDES GPs | NA | NA | NA | NA | NA | 0 |
| Construction Storm Water Authorizations | NA | NA | NA | NA | NA | NA |
| MSGP Storm Water Authorizations | NA | NA | NA | NA | NA | NA |
| **ADEC State Permits and Authorizations** |
| State IPs | 10 | 7 | 8 | 2 | 1 | 2 |
| State GPs | 0 | 0 | 1 | 0 | 1 | 0 |
| Authorizations under State GPs | 32 | 28 | 27 | 25 | 18 | 18 |
| **Total** | **92** | **59** | **61** | **43** | **45** | **31** |
| **Note**: Includes discharges to surface water, land, and underground injection control1. Individual Permit
2. General Permit
3. Not Applicable
 |