ALLAN W. FUNG
MAYOR

Kenneth R. Mason P.E.
Director of Public Work

DEPARTMENT OF PUBLIC WORKS
CITY HALL, ROOM 109
869 PARK AVENUE
CRANSTON, RHODE ISLAND 02910

March 10, 2014

RIDEM, Office of Water Resources
RIPDES Program
Permitting Section
235 Promenade Street
Providence, RI 02905
Attn: Jennifer Stout

Re: 2013 Annual Report
RIPDES Permit NO. RIR040012, Cranston, RI

Dear Ms. Stout,

Enclosed please find the City of Cranston's Phase II Storm Water Annual Report for Year 10. This report documents implementation of the City's Storm Water Management Program Plan (SWMPP), TMDL Implementation Plan, and State requirements pertaining to the discharge of stormwater.

The City looks forward to working with RIDEM toward meeting our 2014 Permit requirements and improving Rhode Island's waters through pollution prevention and reduction.

If you have any questions or comments regarding this submittal please contact me at 401-780-3173.

Sincerely,

Edward J. Tally
Environmental Program Manager
Department of Public Works

Cc: Kenneth R. Mason, Director of Public Works
Gerald Cordy, Director of Administration

(401) 780-3175

FAX (401)780-3176

RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
Office of Water Resources

DEM USE ONLY

Date Received _____

RIPDES SMALL MS4 ANNUAL REPORT

GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040 012

REPORTING PERIOD: ■ **YEAR 10**
Jan 2013-Dec 2013

OPERATOR OF MS4

Name: City of Cranston			
Mailing Address: 869 Park Avenue			
City: Cranston	State: RI	Zip: 02910	Phone: ( ) 780-3173
Contact Person: Edward Tally	Title: Environmental Program Manager		
	Email: etally@cranstonri.org		

Legal status (circle one):
PRI - Private (PUB - Public) BPP - Public/Private STA - State FED – Federal
Other (please specify):

OWNER OF MS4 (if different from OPERATOR)

Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		
	Email:		

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name Allan W. Fung

Print Title Mayor

Signature Allan W. Fung

Date 3/6/2014

MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.1.b.1	Provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.

The City continues to distribute storm water flyers to residents through the DPW, City Hall. The City's stormwater website continued to be updated in 2013 and includes flyers, annual reports, and education materials about reducing storm water pollution. City's Libraries and School's has access to City websites and education materials. Specific information may be found in the document "A Citizens Guide to Understanding Storm Water"& RI Stormwater Solutions". Target pollutants includes but are not limited to fertilizers, gas/oil, pet wastes, silt, illicit discharges, car wash, illegal dumping etc. The program is relatively effective; however, other methods of outreach and communication will be explored in 2014.

IV.B.1.b.2	Provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.

Public education programs such as libraries, schools, and internet were used to educate the community. Veolia Water, the City's Sewer Department also has a program for monitoring illegal discharges in to the system. Veolia checks for the illegal connection of storm drains to the sewer for new and old developments and also during their routine maintenance work. The public is encouraged to reach out to the DPW to report any conditions of concern.

Additional Measurable Goals and Activities: Please indicate if the following training sessions were attended and list the name(s) and municipal position of all staff who attended the training.

Attendance at the following trainings if applicable:

■ Doing More With Less: The Benefits of Stormwater Regionalization Within Your Watershed (September 30, 2013)

Attending name of staff and title: Edward J. Tally, Envirionmental Program Manager

Attending name of staff and title: _____

Other Trainings:

Staff from the Planning Department, DPW, Engineering, and Code Enforcement participated in Climate Change Adaptation Workshops conducted by Massachusetts Institute of Technology Science Impact Collaborative (MIT) and the Consensus Building Institute (CBI)

Please see Appendix A a list of additional trainings attended by Ken Mason, Director of Public Works and Ed Tally, Environmental Program Manager in 2013.

MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.2.b.2.ii	Describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

The City continues to distribute storm water flyers to residents through the DPW, City Hall. The City's stormwater website was updated in 2012 and includes flyers, annual reports, and education materials about reducing storm water pollution. City's Libraries and School's has easy access to city websites and education materials. Target pollutants include but are not limited to fertilizers, gas/oil, pet wastes, silt, illicit discharges, car wash, illegal dumping etc. The Public Works Department has instituted mandatory recycling and improvements to trash collection to reduce debris from migrating to the impaired water bodies. Recycling has reduced trash left in roadways (i.e. bottles and cans) The Public Works Director has instituted additional sweeping around our TMDL/Spectacle Pond to reduce phosphorus & volatiles. In addition, street sweeping was expanded in 2013 to include one additional street sweeping of the Stillhouse Cove watershed.

Additional Measurable Goals and Activities

The 2013 Annual MS4 report was advertised on March 6, 2014

Continued investigation of the most appropriate treatments to improve our TMDL both physical BMP's and passive treatments are being evaluated for feasibility in the City's urban environment.

The City was chosen to participate in Climate Change Adaptation Workshops conducted by Massachusetts Institute of Technology Science Impact Collaborative (MIT) and the Consensus Building Institute (CBI). Focus of the workshops was to bring a diverse representation of businesses, general public, civic associations, municipal and state government, and non-profits to role play climate change scenarios. Urban flooding was highlighted as a part of this exercise. The games provided a unique platform for the City to interact with this diverse group and discuss alternative perspectives on climate change adaptation.

The City continued to follow all procedures listed in our SWMPP update recently completed and submitted.

Ken Mason, Director of Public works, and Ed Tally, Environmental Program Manager, participated in three steering committee meetings held by RIDEM during 2013 for the Upper Narraganset Bay Stormwater Utility Feasibility Study. The purpose of the meetings/workshops was to gather communities together share data and evaluate the viability of a regional approach to stormwater management. Although this was a significant time commitment for the City, we plan on continuing our involvement in future sessions in 2014 including Phase II of the study if funded.

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Date of Public Notice: 3/6/2013	How public was notified: Cranston Herald Newspaper Advertisement
Was public meeting held? YES (NO)	
Date:	Where:
Summary of public comments received: N/A	
Planned responses or changes to the program: N/A	

MINIMUM CONTROL MEASURE #3:
ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.3.b.1:	Indicate if the outfall map was not completed, reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.) **Date of Completion:**

The City's outfall map was completed along with outfall inspections both wet and dry season. Excel spreadsheets have been submitted in 2010. The Environmental Program Manager at Public works has been the responsible party in getting the outfall inspections completed.

IV.B.3.b.2	Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2013 calendar year.

All outfalls have been located with GPS coordinates and implemented into our GIS system. Tagging of outfalls is not necessary as the City of Cranston has sufficiently developed GIS data with sufficient accuracy to allow the identification of individual pipes and structures when revisiting outfall locations.

IV.B.3.b.3	Provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.

Any new City owned catch basins or structures are submitted to the GIS department for purposes of updating our database. The highway staff also reports any newly discovered structures located in the field to the DPW office. Coordination between departments was re-established in 2012. On November 22, 2013 the City signed a contract with Wright-Pierce to conduct an extensive stormwater system evaluation in four (4) area's of the city prone to urban flooding (WP Stormwater System Study). Results of this evaluation will include updating GIS with new/additional data as discovered. Review of as-builts from the last few years will be continue to be reviewed as staffing levels permit and structures will be added to our GIS database as discovered. Asset management software associated with our sewer department identify's potential discrepancies between GIS records and field activities.

IV.B.3.b.4	Indicate if the IDDE ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 4/25/2005 If the Ordinance was amended in 2013, please indicate why changes were necessary.

IDDE ordinance adopted in City Code Title 12.04.061. City Solicitor's letter submitted with previous application. April 25, 2005. No amendments have been made to this ordinance.

IV.B.3.b.5.ii, iii, iv, & v	Provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.

Sources for illicit discharges, once identified, are planned for a proper connection/destination. Plans are developed and corrective measures are completed by the property owner. The Public Works Department is responsible for assessment and removal of illicit discharges. The most common connections include sump pump effluent and roof drains. Owners are instructed to provide plans to disconnect and install underground percolation systems. The Public Works Director provides the letter of notification for repairs.

IV.B.3.b.5.vi	Provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed.

Sources for illicit discharges, once identified, are planned for a proper connection/destination. Plans are developed and corrective measures are completed by the property owner. A revised drain maintenance form was used for inspection during the scheduled manhole/catch basin cleaning by personnel of the Highway Division. All catch basins were inspected for illicit connections by 12/2010. Comments provided by the equipment operators shall indicate the possible presence of illicit discharges. Follow up visits by the DPW personnel were completed. The Highway Department inspected and cleaned 553 basins and inlets in 2013. A cursory inspection of approximately 3600 during our mosquito inspections conducted by Highway staff.

IV.B.3.b.5.vii	If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. **The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. The EXCEL Tables <u>must</u> include a report of <u>all outfalls</u> and indicate the presence or absence of dry weather discharges.** **Date of Completion:** 12/2010

The Public Works Department outfall surveys were completed and submitted electronically in 2010. The wet weather survey was submitted by June (an extension was requested for the extremely wet year) and the dry weather November 2010. This requirement was effective, The survey indicated Fecal Coliform at high levels on Narragansett Boulevard near outfall ST16606 and it was determined that a leaking cesspool at 12 Selkirk Road. This residence was connected to city sewers on 2/27/2012. Excess coliform was also noted at ST6041 and this was the result of piles of garbage located near an upslope drain and the area was cleared.

IV.B.3.b.7	Provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

RIDOT stromwater structure GIS data was received by the DPW staff as a part of the ongoing 2013 WP Stormwater Study The study will assist the City in determining interconnections with the State system or other physically connected MS4's. Nineteen (19) major road arteries in the City are State owned, including Reservoir Avenue, Elmwood Avenue, parts of Pippin Orchard Road, and interstates 295, 95, Rt. 10 & Rt 37, to name a few.

IV.B.3.b.8	Provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

Only under extraordinary conditions residential sub drains and sump pumps are allowed to connect to the MS4 under the direction of and with the approval of the Public Works Department. A drain connection permit is issued by the DPW and construction is overseen by the Engineering Division. No requests have been made for non storm water discharges. The City's sewer system is available for any other types of wastewater requests. In order to connect applicants must obtain a sewer permit to tie into our wastewater treatment collections system and which may include the submittal of a Municipal Industrial Pretreatment Program application.

IV.B.3.b.9	Provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

The previously discussed revised drain maintenance report form has been designed to guide City personnel to identify specific areas of concern. Public educational materials such as flyers and materials are available at the libraries and on our website to inform businesses as well as the general public. The Waste Coordinator is responsible for waste collection and collection is carefully monitored through routine daily phone inquiries on the proper disposal and waste handling methods. The Public Works Personnel at room 109 are available from 8:30 to 4:30 to answer any questions and provide information to the public. It has been reasonably effective since inception.

Additional Measurable Goals and Activities

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2013: 3	# of Illicit Discharges Tracked in 2013: 3
# of Illicit Discharges Eliminated in 2013: 3	# of Complaints Received: 7
# of Complaints Investigated: 7	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 10	Total # of Illicit Discharges remaining unresolved at the end of 2013: 0

Summary of Enforcement Actions:

1.) Release of non PCB Mineral Oil Fluid Release to storm drain ST210250. Reported to RIDEM. Please see Appendix B for full report.
2.) Cleanout at 55 Burnham Street discharged foam out of cleanout reported to DPW. Cleanout repaired under direction of DPW and inspections staff.
3.) SSO discharge at 630 Oaklawn Ave to the stormwater system was reported to RIDEM, private property owner performed manhole repair directed by the DPW office.

Extent to which the MS4 system has been mapped: Completed and submitted electronically in 2010

Total # of Outfalls Identified and Mapped to date: 549 were identified and mapped in 2010

SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
RIDOT/Providence	8/2010	Under Rt. 10 interchange	RIDOT	RT 10	Mapping

MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
(Part IV.B.4 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.4.b.1	Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 4/25/2005 If the Ordinance was amended in 2013, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *RI Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.

The Building Inspection Department in conjunction with the DPW were responsible for completion of this requirement. Ordinance developed and adopted in City Code Title 12.04.063 April 25, 2005.

There were no changes to the Ordinance in 2013.

IV.B.4.b.6	Describe actions taken as a result of receipt and consideration of information submitted by the public.

Significant projects proposed in the City involve public meetings. For current projects Building Inspections will stop the project if the contractor is not maintaining/installing erosion controls as show on approved plans.

IV.B.4.b.8	Describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.

Oversight of land developments are the under the purview of the Building Inspections department with assistance from the Engineering department. In many cases bonding is necessary for construction projects. Proper erosion and sediment control BMPs must be in place and maintained in order to release the bonds. Deficiencies are required to be addressed by building inspections.

Additional Measurable Goals and Activities

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 10 (2013), Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre. **Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Reviews completed: 16
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. Single family and most business permits are inspected for Stormwater Manual compliance by Cranston's Department of Building Inspections. Four (4) minor subdivisions (less than 3 lots) were proposed, three (4) Major Residential Subdivisions, (8) Major Land Developments, were reviewed and/or approved by the Planning Department. Reviews are also conducted during site plan reviews by City departments including Engineering and DPW. Most development for the City in 2013 remained single family home construction with <.5 acres of disturbance following appropriate erosion control abatement measures. Total of 36 Residential applicaitons were submitted. Additionally, 7 Demolition permits were issued. The protocol currently in place is designed to have planning, building department, engineering, and DPW staff all work in coordination to maintain this requirement.

SECTION II.B - Erosion and Sediment Control Inspections during Year 10 (2013), Parts IV.G.2.n and IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4 (the program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site).

# of Site Inspections: 8	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. Submission of a site plan must include an erosion control method which must be approved prior to a permit being issued. Prior to construction, a site inspection is performed to verify compliance with all erosion controls as provided on the construction documents. Violations are noted on Building Inspection/Field Inspection Reports. All violations are discussed with contractors and resolutions determined for the project to continue. The Building Department has enforcement action and can issue a cease and desist until corrective actions are taken.	

MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REVELOPMENT
(Part IV.B.5 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.5.b.5	Describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.

Building Inspections has been notified of the new inspection requirements for the MS4 program. Prior to bond reduction, a final inspection must be performed by the Engineering Department of Public Works. They review storm water discharge approved plans from all impervious surfaces, and runoff to adjacent properties. If the contractor has followed all plan requirements for City of Cranston infrastructure bond reduction will be authorized for the new storm water system. The owner is then responsible for the maintenance of storm water BMP and records. BMP maintenance must be done twice a year with records available to the Public Works Department upon request. The planning department is copied on RIPDES permit applications.

IV.B.5.b.6	Describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).

All land development projects which disturb a land area of 1 acre or more are required to apply to RIDEM by law. DEM permitting requirements are required for Planning Approvals on land development projects. Planning then requires the applicants to provide proof of approved state permits and building inspections monitors compliance with approved plans and specifications.

IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 4/25/2005 If the Ordinance was amended in 2013, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *RI Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.

The Building Inspection Department in conjunction with the DPW were responsible for completion of this requirement. Ordinance developed and adopted in City Code Title 12.04.063 April 25, 2005. Adoption of a Conservation Subdivision or LID ordinance is an identified objective in the City's Comprehensive plan. All new development will subject to follow RIDEM Stormwater Design and Installation Manual (2010) while redevelopment will follow the applicable sections of the manual as required.

IV.B.5.b.12	Describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.

The City of Cranston installed 4 BMP's in 2004 and additional 2 were installed during the Stillhouse Cove Revetment and Drainage Improvements in 2006-7. The Engineering Department has been inspecting the installed BMP's at Narragansett Bay. Vortechnic's units were installed during the Stillhouse Cove Project with new improved outfalls in the bay. Measurements the first two years after installation these units did not collect much sediment but floatables were noted as successfully removed upon installation. In successive years large amounts of sand and debris were noted possible due to nearby construction activities. Structures are cleaned on an annual basis.

Additional Measurable Goals and Activities

Existing stormwater BMP's have been mapped on GIS in order to provide locations of these units for inspection.

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 10 (2013), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs).

# of Post-Construction Reviews completed: 8
Summary of Reviews and Finding, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. Currently there is bonding for projects at various stages of development within the City. Inspections were completed on a parking lot installation, three restaurants, three small lot subdivisions (less than 3 lots), and a land developement project at Garden City. Other proposed projects are at various stages of planning, design review and construction.

SECTION II.B. - Post Construction Inspections during Year 10 (2013), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review).

# of Site Inspections: 16	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: All approved plans and notes must be followed during construction unless conditions vary and a revised plan is provided for the as-built changes as installed. Standard complaints is erosion onto the roadway. Contractors are required by the Building Inspection department to rectify erosion/runoff issues.	

SECTION II.C. - Post Construction Inspections during Year 10 (2013), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs: Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections: 1	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The City does not actively manage post BMP O & M tracking and inspections. However the Inspections department will respond and investigate any complaints. This year the City has identified all of the City owned BMP's in an effort to begin a more active maintenance of these structures. The Stormwater coordinator and engineering department are responsible for implementation of this requirement. 1 vortechnics unit was inspected and cleaned in 2013. Weather events and staffing concerns . Annual cleaning of these structures are scheduled for Spring 2014.	

MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.6.b.1.i	Describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.

All BMP'S owned or operated by the City were located by GPS coordinates on excel spreadsheets identified and listed. The BMP's are inspected yearly and any deficiencies are addressed. The City has identified and numbered 7222 storm water structures and 549 outfalls in 2006. This information has been provided to RIDEM.

IV.B.6.b.1.ii	Describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.

The City has updated our inspection and cleaning schedules with respect to our TMDL listings. Structures located in the vicinity of Stillhouse Cove, Spectacle Pond, and the Roger Williams Park ponds are being targeted for more frequent cleaning at least twice/year. Any minor deficiences are repaired by the highway staff. Exmergency repairs are made on an as needed basis.

IV.B.6.b.1.iii	Describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement. Total # of CBs within regulated area (including SRPW and TMDL areas): 7222 Total # of CBs inspected in 2013: 3600 (Including mosquito inspection activities) Total # of CBs cleaned in 2013: 553

Areas subject to accumulation of debris have been targeted for cleaning each year. Complaint calls pertaining to drainage/basin issues are logged and addressed by the Highway Department staff. Due to the quantity of catch basins and limitations in Highway Department staff catch basins are cleaned on a rotating basis. An estimated 552 tons of sand/grit material was removed during catch basin cleaning activities.

IV.B.6.b.1.iv	Describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.

All construction projects are required to have appropriate erosion controls. Construction within the City ROW must have a road opening permit. After construction, in additional to the pavement restoration seeding or sod is required by the Engineering Department and inspected for compliance. If erosion controls are required they are inspected during the course of the project. Curbing and asphalt berms are repaired or installed as necessary and inspection/maintenance of drainage swales are addressed as needed. These steps are viewed as appropriate and effective.

IV.B.6.b.1.v	Describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.

A study to determine the composition of the sedimentation accumulation has been completed by Woodward & Curran in December of 2011. This study was used to determine the feasibility of sediment removal at the 48" outfall located on Lake Street (SpP-F Stormwater Outfall). The location is the outfall for the largest drainage area in the urbanized City. Woodward and Curran was retained on to produce Lake Street Outfall Maintenance Project Documents to prepare the City for dredging and headwall repair construction activities. See TMDL requirements below for additional information. The 2013 WP Stormwater Study will further evaluate the condition of the stormwater system in four (4) watersheds identified as deficient during flash flooding events. Outfalls that convey significant flows during flash flooding events are being evaluated.

IV.B.6.b.1.vi	Indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). Evaluate appropriateness and effectiveness of this requirement. Total roadway miles within regulated area (including SRPW and TMDL areas): 516 Total roadway miles that were swept in 2013: 1032

Main roads are now scheduled to be swept twice a year while secondary roads are swept once. TMDL areas receive additional sweeping activities as necessary. The City cannot afford to purchase a waterless sweeper for cold season sweeping at this time.

IV.B.6.b.1.vii	Describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.

All new drainage proposals will have to provide some type of filtration provided on the site in order to conform with the new permit requirements. The City has in place 6 vortechnics units to catch floatables on our Providence River shorefront. Most catch basins in the City have 3' sumps. They are cleaned to remove sediment on a rotating basis but in some cases, when warranted, twice a year. Trash from all City parks and recreations areas are collected daily by the Parks and Recreation department.

IV.B.6.b.1.viii	Describe the method for disposal of waste removed from MS4s and waste from other municipal operations, including accumulated sediments, floatables and other debris and methods for record-keeping and tracking of this information.

Materials are collected stockpiled for screening. Trash removed from the Materials is collected stockpiled and then screened to remove the garbage from reusable granular materials. Then the trash removed from the collected sediments are taken to RIRRC for disposal. Over 241 tons of material has been removed between catch basin cleaning activities and City trash removal. The Highway department collected and disposed of 74.3 tons of electronic waste in 2013. In addition, Fleet Maintenance collected 2300 gallons of oil and 10 drums of oil filters for proper disposal.

IV.B.6.b.4 and IV.B.6.b.5	Describe and indicate activities and corrective actions for the evaluation of compliance. This evaluation must include visual quarterly monitoring; routine visual inspections of designated equipment, processes, and material handling areas for evidence of, or the potential for, pollutants entering the drainage system or point source discharges to a waters of the State; and inspection of the entire facility at least once a year for evidence of pollution, evaluation of BMPs that have been implemented, and inspection of equipment. A Compliance Evaluation report summarizing the scope of the inspection, personnel making the inspection, major observations related to the implementation of the Stormwater Management Plan (formerly known as a Stormwater Pollution Prevention Plan), and any actions taken to amend the Plan must be kept for record-keeping purposes.

The drain cleaning staff has been trained to inspect the system as they clean it during the year. They will call in any unusual circumstances to Public Works for an engineer to inspect for repairs. Yearly equipment modernization show for Municipal Highway Maintenance equipment. RIDEM Debris Disposal and Maintenance seminar. All CB's cleaned are recorded on our drain forms for record keeping purposes along with the quantities of material removed during cleaning by weight.

IV.B.6.b.6	Describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.

All employee's are trained in conformance with local, State, and industry standards at the Public Works Highway Garage by City Engineers.

IV.B.6.b.7	Describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.

Evaluation of projects for potential water quality impacts will be assessed for additional water quality protection devices of practices by Planning and Building Inspections. The MS4 coordinator and Director of Public Works have been working with these departments and RIDEM in order to ensure proper assessments are being conducted.

Additional Measurable Goals and Activities

No additional runoff is allowed from new development projects.

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
See Appendix C			

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
NA	NA	NA	NA	NA

SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

As previously mentioned in this report the City has retained Wright Pierce for the WP 2013 Stormwater Study. This study is evaluating four (4) key areas subject to severe flash flooding events. The systems watersheds will be field verified, CCTV camera's will be used where appropriate, and inland waters contracted for any major cleaning activities. After the initial evaluation, hydraulic modelling will be completed. Rough cost estimates will be provided for gray and green infrastructure soiutions which are most likely to improve the performance of the infrastructure and enhance the water quality to receiving streams/ponds. The City is excited to get the results of this study and evaluate potential solutions.

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

The City of Cranston is in receipt of the September, 27, 2007 TMDL for phosphorus in Spectacle Pond. It indicated that the major sources of phosphorus to Spectacle Pond are storm water, waterfowl and internal cycling.

The City completed our SWMPP updated TMDL Implementation Plan on December 15, 2010. We will have evaluated outfalls tributary to Spectacle Pond as part of our on going compliance efforts. We will evaluate the water quality in Spectacle Pond for compliance with TMDL limits. On August 3, 2011, The City delivered the TMDL Implementation Plan, Proposed Scope of Work for Structural and Internal Pond Nutrient Management. We have not received a response from the RIDEM to the submitted plan.

There are hydraulic issues related to Spectacle Pond as it runs under Route 10 in various open and closed storm water systems to Mashapaug Pond in Providence. A study completed by the by The Louis Berger Group, Inc., dated February 5, 2001, evaluated improvements to the drainage system in this area. They provided a number of alternatives that all carried a high price tag with little for return on this investment in terms of reduced volume or velocity as there is not enough room for large structures. Additional stake holder meetings will be coordinated with RIDOT MS4 coordinator Allison Hamil in order to coordinate efforts with state owned roads and all common drainage systems.

On December 12, 2011 Woodward and Curran delivered a dredge analysis report of the excessive deposition of sediments in the Lake Street outfall (identified RIDEM SpP-F). The location is the primary outfall for Spectacle Pond and represents the largest drainage area in the urbanized City. The city signed a contract with Woodward & Curran on January 1, 2013 to produce Lake Street Outfall Maintenance Project Documents to prepare the City for dredging and headwall repair construction activities. On April of 2013, the City received the Lake Street Outfall Maintenance Project Draft Drawings, Documents, and Specifications. On May 23, 2013 the City received a contract amendment from Woodard and Curran for assistance in bidding, contractor selection, and resident engineering services. The City plans to move forward with the project pending available funding.

The aftormentioned Lake Street Outfall Maintenance Project is under final review and approval however, in 2013 during the summer and early fall the City experienced a number of flash flooding events. One of which on September 2, 2013 was well documented. The DPW responded to and documented these events including flooded out homes, apartments, and businesses. The flash flooding events brought to light to the short tenured staff an immediate problem in the City which adjusted our focus to try to tackle these immediate flooding problems.

Please see Sections IV.B.6.b.1.v and Section II.c. for additional details regarding this study.

Continued Compliance Activites:

- We will continue to conduct stormwater system maintenance to identify structures for more frequent cleaning. We implemented sweeping priority outfall CB's in the TMDL watershed three times a year. We have already dye tested for inflow and outflow to SP-E and SP-D (see TMDL Maps) specifically to locate which drainage structures are connected to which road drain systems. The results are indicated in the report.
- A brochure entitled "Saving Spectacle Pond" continues to be handed out at the DPW office to enlist the support of the public on this process.
- A yard waste program runs from April 1 through December 15 each year to pick leaves before they enter the system.
- Continued use of phosphorous free fertilizers on City Athletic Fields.
- Continue to maintain our GIS system for drainage mapping.

Continued evaluation of the following activities will continue in 2014:

- Evaluation of water quality park concept BMP's for infiltration and slowing down sheet flow for reduction of phosphorus is taking place in three locations.
- Vegetative planting to prevent geese access.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regs), on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:
http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf
The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

No listed SRPW's in Cranston.

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources

INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED BY REGULATED SMALL MS4s

ANNUAL REPORT FORM

WHO MUST SUBMIT AN ANNUAL REPORT:

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge stormwater under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Stormwater General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s (hereafter referred to as "the General Permit"), must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance by March 10th to track progress of compliance. If you have questions regarding this Annual Report Form contact Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM
Office of Water Resources
RIPDES Program
Permitting Section
235 Promenade Street
Providence, RI 02908
ATTN: Jennifer Stout

INSTRUCTIONS FOR COMPLETION:

GENERAL INFORMATION PAGE:

"RIPDES Permit #"
Include your permit ID # to ensure proper tracking.

"Operator of MS4"
Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (RIPDES Rules 3 & 12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to indicate the legal status of the operator of the MS4.

"Owner of MS4"
If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES Rules 3 & 12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

"Certification"
State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Rule 12);

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor;

For a Municipality, State, Federal or other public site: by either a principal executive officer or ranking elected official.

SECTION I- OVERALL EVALUATION OF BMPS AND MEASURABLE GOALS:

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. This section provides narrative space for a descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures for the 2013 calendar year. Please type or print. If additional space is needed, modify as necessary. Please submit attachments to the appropriate minimum control measure following the format provided.

A Permit ID # has been provided, which refers to the part of the permit where you can find a listing or description of the required measurable goal.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal.

Describe whether each measurable goal was completed within the time proposed in the General Permit or your Stormwater Management Program Plan (SWMPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

SECTION II- ADDITIONAL ANNUAL REPORT REQUIREMENTS

Section II refers to additional reporting requirements that the General Permit requires to be submitted to the Department as part of the Annual Report. Section II requirements apply to Minimum Control Measures 2 through 6.

Minimum Control Measure #2: Section II:
Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments received in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Parts IV.G.2.h and IV.G.2.i) to the Annual Report.

Minimum Control Measure #3: Section II.A:
Provide the number of illicit discharges identified in 2013, number of illicit discharges tracked in 2013, number of illicit discharges eliminated in 2013, complaints received, complaints investigated, violations issued and resolved with a summary of enforcement actions, number of unresolved violations that have been referred to RIDEM, the total number of illicit discharges identified to date, and the total number of illicit discharges remaining unresolved at the end of 2013. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m), and the total number of outfalls identified to date.

Minimum Control Measure #3: Section II.B:
List identified MS4 interconnections, including location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.l).

Minimum Control Measures #4 & 5: Section II.A:
Identify the number of construction and post-construction plan and SWPPP/SESC Plan reviews completed during Year 10 (2013) and any additional information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

Minimum Control Measure #4: Section II.B:
Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.B:
Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.C:
Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #6: Section II.A:
As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section II.B:
Part IV.B.6.b.1.v of the General Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section II.C:
As noted in Part IV.G.2.j of the General Permit, specify any planned municipal construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: Section II.D:
Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data, including, but not limited to, dry weather survey data (Part IV.G.2.e).

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

Section I:
Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural stormwater controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of stormwater (Part IV.G.2.d).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable, assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness, you may want to consider violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs. Also include a discussion of any proposed changes to BMPs or measurable goals.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

Section I:
Complete this section only if your MS4, located outside Urbanized Areas or Densely Populated Areas, discharges to:
a SRPW as listed in Appendix D of the *RIDEM Water Quality Regulations* at this link:
http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf
or
an impaired water body including water bodies with no approved TMDL as listed in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link:
http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf.
In accordance with Rule 31(a)(5)(i)G in the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regulations), MS4s were required to incorporate any discharges to these water bodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with Rule 31(g)(5)(iii).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to incorporate these areas into the MS4's Phase II Stormwater Program.

APPENDIX A

2013 Staff Training Log

CITY OF CRANSTON
2013 Stormwater Training

Date	Title	Hosting Organization	Location	Length (hrs)	Topic	Attendees
1/24/2013	RI APA Community Resource Maps	RI APA	Johnston	2	GIS based community resource mapping	Ed Tally
2/20/2013	GIS Parcel Symposium	RIGIS	City of Cranston	2	Parcel data analysis	Ed Tally
4/30/2013	Erosion Control Workshop	RIDOT	RI DOT Maintenance Garage	3	Erosion and Sedimentation Control Workshop	Ed Tally, Ken Mason
6/19/2013	Assessing the Economic Impact of Stormwater Investments In Your Community	Sustainable Communities Capacity Building	Webinar	1	Assessing the Economic Impact of Stormwater Investments In Your Community	Ed Tally
9/25/2013	Upper Narraganset Bay Regional Stormwater Utility Feasibility Study - Session 1	Sustainable Stormwater Solutions Steering Committee	Rhode Island Foundation	3	Feasibility to Regionalize	Ken Mason, Ed Tally
9/30/2013	Doing More, With Less		Meseum of Work and Culture	3	Stormwater Regionalization	Ed Tally
10/23/2013	NEWEA	New England Water Environment Association	Providence Biltmore	3	Stormwater and Funding Issues	Ed Tally
10/29/2013	Upper Narraganset Bay Regional Stormwater Utility Feasibility Study - Session 2	Sustainable Stormwater Solutions Steering Committee	RI DEM	3	Feasibility to Regionalize	Ken Mason, Ed Tally
11/21/2013	RI Regulatory Setbacks & Buffers	URI Cooperative Extension	URI - Weaver Auditorium	8	Setbacks and Buffers	Ed Tally, Nick Capezza
11/26/2013	Upper Narraganset Bay Regional Stormwater Utility Feasibility Study - Session 3	Sustainable Stormwater Solutions Steering Committee	NBC	3	Feasibility to Regionalize	Ken Mason, Ed Tally

APPENDIX B

Release Summary Letter
Pole No 2-50, Adjacent to 24 Midway Road

CONECO
Engineers, Scientists & Surveyors

CIVIL ENGINEERING
SURVEYING
ENVIRONMENTAL CONSULTING
ECOLOGICAL SERVICES

May 9, 2013
Coneco Project No. 7714.0

Mr. William Howard
Lead Environmental Scientist
The Narragansett Electric Company d/b/a National Grid
280 Melrose Street
Providence, Rhode Island 02907

RE: **Release Summary Letter**
No-PCB Mineral Oil Dielectric Fluid Release
Pole No. 2-50, Adjacent to 24 Midway Road
Cranston, Rhode Island

Dear Mr. Howard:

On behalf of The Narragansett Electric Company d/b/a National Grid (TNEC), Coneco Engineers & Scientists, Incorporated (Coneco) has conducted response actions pertaining to a sudden release of no-polychlorinated biphenyl (no-PCB) mineral oil dielectric fluid (MODF) at the above referenced location; hereinafter the "Site." The source of the release was a three-phase pole-mounted electrical transformer bank (75 kVA per individual transformer) formerly situated atop utility Pole No. 2-50. The release occurred as a result of high winds and heavy snowfall related to Winter Storm Nemo which impacted the region on February 8 and 9, 2013. Winter Storm Nemo damaged electrical equipment owned and operated by TNEC throughout Rhode Island. Following the storm, TNEC personnel assessed the damage and began restoration efforts. Damaged electrical equipment was removed from service and transported in vehicles equipped with secondary containment to designated TNEC storm-staging areas for further evaluation and disposal.

Response actions were conducted at the Site to assess release conditions, remediate impacted media and surfaces, and determine whether this release of oil and/or hazardous materials represents a significant risk to human or environmental receptors. The information contained in this report supplements the initial documentation submitted by TNEC to the Rhode Island Department of Environmental Management (RIDEM) Office of Emergency Response on February 20, 2013. The remedial actions completed as a result of this release were performed in accordance with the requirements of RIDEM's *Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases* (Remediation Regulations), and *Oil Pollution Control Regulations* (OPC Regulations). A Site Locus Map and Site Plan are included as Figures 1 and 2, respectively. Photographs of the release area and response actions are appended.

Initial Response Actions

On February 10, 2013, TNEC personnel identified a release of MODF which occurred from a three-phase pole-mounted electrical transformer bank (75 kVA per individual transformer) formerly situated atop utility Pole No. 2-50, located adjacent to 24 Midway Road in Cranston, Rhode Island. The release occurred as a result of high winds and heavy snow,

causing the utility pole to break and the associated transformer bank to fall to the ground, causing a sudden release of MODF.

Coneco personnel arrived on-Site at approximately 4:30 p.m. on February 10, 2013 to evaluate release conditions. Weather conditions during the performance of initial Site assessment activities were clear with ambient temperatures in the 30s, Fahrenheit. Based on visual observations, the release was noted to have impacted an approximately 900 square-foot area of snow, ice and asphalt-paved roadway of Midway Road in the immediate vicinity of utility Pole No. 2-50. However, after further inspection, it was determined that the release had initially impacted snow located atop of the asphalt pavement, which was subsequently plowed downgradient of the initial release area into a bank of snow located approximately 75 feet southeast. At the time of the inspection, no pathways to surface water, storm water drainage systems, public water supplies, private water supply wells, or sensitive receptors were identified. RIDEM was provided verbal notification of the release at approximately 5:55 p.m. on February 10, 2013.

Original manufacturer's nameplate information present on the damaged 75 kVA electrical transformers, manufactured by Wagner Electric (1) and Westinghouse (2), with serial numbers 5U8832, 65AJ10265 and 65A17190, respectively, did not indicate the date of manufacture and/or PCB-content of the MODF contained within the transformers. As such, Coneco personnel collected a MODF sample from each transformer on February 10, 2013 and field-screened for PCBs using Dexsil Clor-N-Oil PCB screening kits (United States Environmental Protection Agency [EPA] SW-846 Method 9079). Results of the Clor-N-Oil analysis identified no concentrations of PCBs in excess of 50 ppm.

In order to confirm the field screening results, additional aliquots of the MODF samples were collected from each of the transformers on February 10, 2013 and submitted to Rhode Island Analytical Laboratories (RIAL), an independent, Rhode Island and National Environmental Laboratory Accreditation Program (NELAP)-certified analytical laboratory located in Agawam, Massachusetts, for rush analysis of PCBs by EPA Method 8082. Laboratory analytical results indicated that the MODF within each transformer did not contain concentrations of PCBs in excess of the laboratory quantification limits of 1.0 mg/kg. Original laboratory data, laboratory quality assurance/quality control (QA/QC), methods, and the chain-of-custody form are attached. Based on the results of certified laboratory analysis, the MODF associated with the transformers were characterized as "non-PCB" pursuant to 40 CFR 761.3, and as the MODF associated with the transformers contained no concentrations of PCBs in excess of 2 ppm, the release is also considered to be "no-PCB."

On February 10, 2013, personnel of Clean Harbors Environmental Services, Incorporated (CHESI), with oversight provided by Coneco, conducted initial remedial activities at the Site. CHESI personnel utilized a mini excavator to remove impacted snow from the approximately 250 square foot snow bank generated by the plow during the winter storm. Impacted snow was subsequently placed into a Department of Transportation (DOT)-approved roll-off container, and stored on-Site until proper disposal could be arranged. As access to the initial release area was limited due to downed wires and utility vehicles, additional granular absorbent material was deployed in order to further contain the area until remedial activities could continue the following day.

Additional Response Actions

February 11, 2013

Coneco and CHESI personnel arrived on-Site at approximately 9:30 a.m. on February 11, 2013 to conduct additional response actions and further evaluate release conditions. Weather conditions during the performance of initial Site assessment activities were rain with ambient temperatures in the 30s, Fahrenheit. Due to overland flow caused by stormwater from the rainfall, a sheen originating from the no-PCB MODF-contaminated snow bank migrated approximately 270 feet along the asphalt-paved surface of Midway Road. In addition, surficial sheet flow of stormwater caused the release to migrate downgradient along the asphalt pavement to a stormwater catch basin which had been newly uncovered by a snow plow. Upon identification, oil-absorbent material was deployed in the vicinity of the stormwater catch basin, designated as CB-01, to absorb and contain the release until further response actions could be initiated.

CHESI personnel, with oversight provided by Coneco, utilized hand tools to remove the previously deployed granular absorbent material from the initial release area. CHESI then utilized hand tools and a mini excavator to remove the underlying impacted snow and ice remaining in the initial release area, as well as additional impacted snow within the snow bank. Impacted snow, ice and absorbent material were subsequently placed into the on-Site DOT-approved roll-off container for proper disposal. Following removal of impacted snow and ice, CHESI personnel applied oil-emulsifying soap and clean rinse water to wash impacted portions of the asphalt pavement from the initial release area, along Midway Road to the downgradient stormwater catch basin, CB-01. Lastly, CHESI personnel utilized a Cusco® vacuum truck to skim the surface of the stormwater within the catch basin to remove sheen. Following response actions, Coneco directed CHESI to leave absorbent booms within the catch basin.

February 12, 2013

On February 12, 2013, Coneco and CHESI personnel returned to the Site to further evaluate the contaminated snow bank. Weather conditions on this day were clear with ambient temperatures in the upper 40's, Fahrenheit. Due to seasonably warm temperature, the snow bank began to melt, causing a new sheen to develop on melt water. As such, Coneco directed CHESI to deploy granular absorbent material to prevent the migration of the melt water. CHESI personnel then utilized hand tools remove additional contaminated snow from the bank, as well as the granular absorbent material. Impacted media was contained within properly sealed and labeled DOT-approved 55-gallon drums. CHESI personnel then used oil-absorbent pads to skim the surface of the stormwater accumulated in catch basin CB-01, and replaced the oil-absorbent boom. Remediation waste generated as a result of response actions on February 11, 2013 was collected and contained within seven DOT-approved 55-gallon drums.

February 13, 2013

On February 13, 2013, Coneco and CHESI personnel returned to the Site to perform additional response actions. Weather conditions on this day were clear with ambient

temperatures in the upper 40's, Fahrenheit. Prior to response actions, Coneco personal conducted an inspection of the surrounding drainage structures to determine whether or not the increased stormwater levels from the previous days snow melt and rainfall had caused migration from the effluent pipes. Based on the water level within CB-01 relative to the effluent pipe associated with the stormwater drainage system, impacted standing water within the catch basin was determined to have migrated to a second stormwater catch basin (designated CB-02), located approximately 25 feet east along Garden Court. Based on the water level within this catch basin (CB-02) relative to the effluent pipe associated with the stormwater drainage system, impacted standing water within the catch basin was determined been contained within the structure.

Following the inspection of the catch basins, the interior surfaces of the catch basins were cleaned using a power washer, clean rinse water and hand tools. Rinse water was collected within the Cusco® vacuum truck. Lastly, CHESI personnel utilized the Cusco® vacuum truck to remove the remaining contaminated snow from the bank, as well as areas of snow located along the concrete curbing of Midway Road. Once remaining contaminated snow was removed, it was determined by Coneco that the snow bank had been generated atop and area of asphalt pavement, and that no soil was impacted. Following response actions, Coneco directed CHESI to leave absorbent booms within each catch basin, until their scheduled removal on February 15, 2013.

The impacted asphalt-paved roadway was noted to be in good condition with no significant cracks, fissures, or faults. As such, it is the opinion of Coneco that no preferential migration pathways to underlying soil were noted. As this surface did not contain potential conduits to the environment, no evidence of migration to soil located below the solid surface within the release area was identified by Coneco. Therefore, soil located below the asphalt-paved surfaces was not addressed during the performance of response actions. As soil or vegetation at the Site was not impacted by the release, no confirmatory soil samples were collected during remedial activities. Since the release was limited to an intact asphalt-paved surface, based on observed Site conditions and the limited volume of no-PCB MODF released, Coneco is of the opinion that no impact to surface water or groundwater occurred; therefore, they were not evaluated as part of response actions.

Remediation Waste

As a result of remedial actions conducted on February 10 and 11, 2013, a total of approximately 50 gallons of no-PCB MODF-impacted media, comprising melted snow, ice and absorbent material was collected and contained by CHESI within a DOT-approved roll-off container. The remediation waste, characterized as non-Department of Transportation (DOT)-regulated material (oily water), was transported on February 12, 2013 under Uniform Hazardous Waste Manifest (004003712 FLE) to the Clean Harbors of Braintree, Incorporated facility in Braintree, Massachusetts for proper disposal.

As a result of remedial actions conducted on February 12, 2013, a total of approximately 3,000 pounds of no-PCB MODF-impacted media, comprising snow and absorbent material was collected and contained by CHESI within seven properly labeled and sealed DOT-approved 55-gallon drums. The remediation waste, characterized as non-Department of

Transportation (DOT)-regulated material (oily solids), was transported on the date of generation under Uniform Hazardous Waste Manifest (006150599 FLE) to the Clean Harbors of Braintree, Incorporated facility in Braintree, Massachusetts for proper disposal.

As a result of remedial actions conducted on February 13, 2013, a total of approximately 2 yards of no-PCB MODF-impacted media, comprising snow and absorbent material was collected and contained by CHESI within a Cusco® vacuum truck. The remediation waste, characterized as non-Department of Transportation (DOT)-regulated material (oily solids), was transported on the date of generation under Uniform Hazardous Waste Manifest (004003751 FLE) to the Clean Harbors of Braintree, Incorporated facility in Braintree, Massachusetts for proper disposal.

On February 15, 2013, the absorbent booms were contained within one properly labeled and sealed DOT-approved 55-gallon drum and transported under Uniform Hazardous Waste Manifest (004003761 FLE) to the Clean Harbors of Braintree, Incorporated facility in Braintree, Massachusetts for proper disposal. Copies of the Uniform Hazardous Waste Manifests are attached.

Conclusions

In summary, a release of MODF was identified by TNEC personnel at the Site on February 10, 2013. Per laboratory analysis, MODF associated with the damaged three-phase pole-mounted electrical transformer bank (75 kVA per individual transformer) are characterized as "non-PCB" in accordance with 40 CFR 761.3, and as the MODF associated with the transformers contained no concentrations of PCBs in excess of 2 ppm, the release is also considered to be "no-PCB." TNEC personnel notified the RIDEM of the release at approximately 5:55 p.m. on February 10, 2013.

Response actions were conducted to eliminate the source of the release and remediate no-PCB MODF-impacted media. Based on observed Site conditions, the limited volume of non-PCB MODF released, and since the surface of the release area at the Site is completely covered by asphalt pavement, no impact to soil, groundwater, or surface water has been identified or is expected in association with this release. Two stormwater catch basins were impacted by the release; however, impact to the catch basins were limited to a slight discontinuous sheen which was contained within the structures. No pathways to surface water, public water supplies, private water supply wells, or sensitive receptors were identified.

If there are any questions regarding this submittal, please contact the undersigned.

Respectfully Submitted,
Coneco Engineers & Scientists, Incorporated

Kristen M. O'Leary
Project Environmental Scientist

Jeffrey S. Hunter
Senior Project Manager

Brian F. Klingler, P.G., L.S.P.
Principal Geologist

KMO:JSH:BFK:jd
Z:\\7714.0 – Pole No. 2-50, Midway Road, Cranston - Summary Letter.doc

ENCLOSURES:
Figure 1 - Site Locus Map
Figure 2 - Site Plan
Site Photographs
Laboratory Analytical Documentation
Uniform Hazardous Waste Manifests

SITE LOCUS
500-FOOT RADIUS
0.5-MILE RADIUS

COORDINATES OBTAINED FROM NAD83 DATUM
LATITUDE: 41° 45' 50" N
LONGITUDE: 71° 27' 26" W
UTM: 4,626,471 N 295,722 E (Zone 19)

N

U.S.G.S. 1996 PROVIDENCE, RHODE ISLAND
7.5 MINUTE QUADRANGLE

CONECO
Engineers, Scientists & Surveyors

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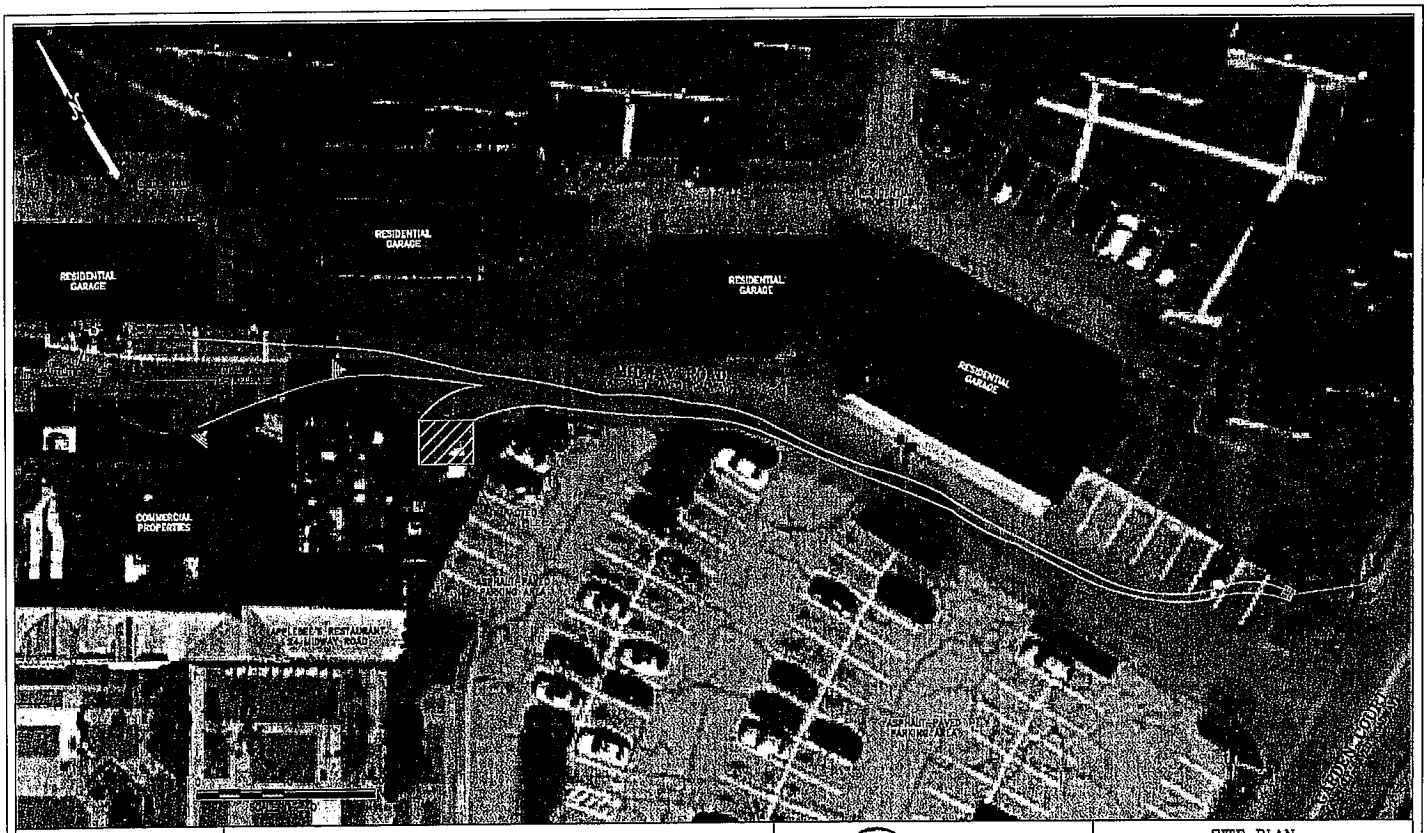
SITE LOCUS MAP

NO-PCB MODF RELEASE
POLE NO. 2-50, ADJACENT TO
24 MIDWAY DRIVE
CRANSTON, RHODE ISLAND

SCALE	PROJECT NO.	DRAWING NUMBER
1:25,000	7714	FIGURE 1



NOTE: THE LOCATION AND DIMENSIONS OF THE SITE AND VICINITY FEATURES ARE APPROXIMATE AND BASED UPON GOOGLE EARTH IMAGING ON APRIL 2, 2012 AND CONECO FIELD OBSERVATIONS.

LEGEND

- APPROXIMATE LIMITS OF SURFICIAL STAINING
- APPROXIMATE LIMITS OF STORMWATER/MELT WATER SHEEN
- APPROXIMATE LOCATION OF IMPACTED SNOW PILE
- THREE-PHASE ELECTRICAL TRANSFORMER BANK
- CATCH BASIN
- DOWNGRADIENT SLOPE

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	DRAWN	CHECKED	CAD FILE NO.
BY	KMO	JSH	D:/7714.0-Figure 2
DATE	3/13/13	3/13/13	[illegible].dwg

SITE PLAN

NO-PCB MODF RELEASE
POLE NO. 2-50, ADJACENT TO
24 MIDWAY ROAD
CRANSTON, RHODE ISLAND

SCALE	PROJECT NO.	DRAWING NUMBER
AS NOTED	7714.0	FIGURE 2

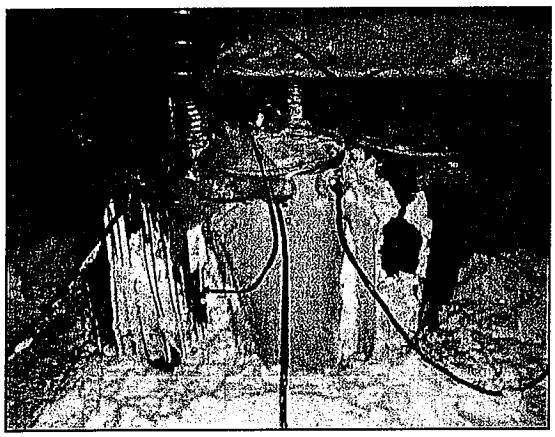

Photo 1
Location of the 50 kVA electrical transformers associated with the damaged three-phase electrical transformer bank formerly atop utility Pole No. 2-50 on February 10, 2013, as viewed from the northeast.

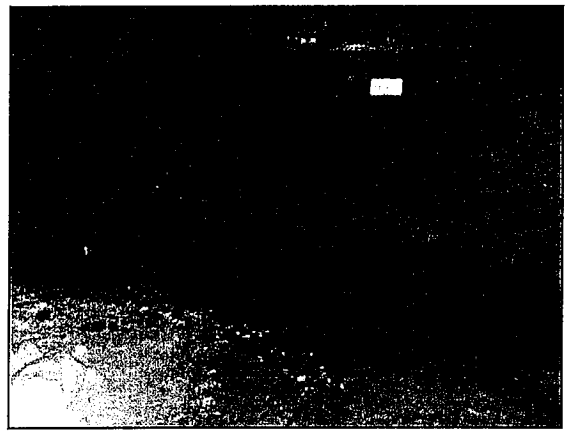

Photo 2
Site conditions in the vicinity of the initial release area prior to additional response actions on February 10, 2013, as viewed from the southeast.

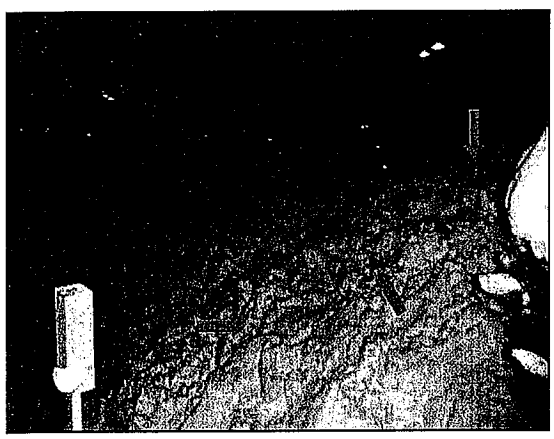

Photo 3
Location of snow pile in which no-PCB MODF-impacted snow located in the initial release area was plowed prior to additional response actions on February 10, 2013, as viewed from the north. Note the no-PCB MODF staining throughout the snow pile.

Photo 4
Site conditions along Midway Road downgradient from the initial release area, prior to additional response actions on February 10, 2013, as viewed from the northwest.

CONECO *Engineers, Scientists & Surveyors* OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355			NO-PCB MODF RELEASE POLE NO. 2-50, ADJACENT TO 24 MIDWAY ROAD CRANSTON, RHODE ISLAND
PHOTOGRAPHER	DATE	CHECKED	FILE NO.
KMO/STM/ZEB	AS NOTES	JSH	Z:\\7714.0.CRANSTON\PHOTOS\7714.0 – PHOTOS.DOC

Photo 5
Site conditions during snow removal activities on February 10, 2013, as viewed from the north.

Photo 6
Site conditions at the conclusion of snow removal activities on February 10, 2013, as viewed from the northeast. Note remaining no-PCB MODF staining.

Photo 7
Site conditions prior to additional snow removal activities on February 11, 2013, as viewed from the north. Note the sheen from the snow melt along the asphalt pavement.

Photo 8
Site conditions in the initial release area prior to additional response actions on February 11, 2013, as viewed from the northeast.

CONECO *Engineers, Scientists & Surveyors* OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355			NO-PCB MODF RELEASE POLE NO. 2-50, ADJACENT TO 24 MIDWAY ROAD CRANSTON, RHODE ISLAND
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KMO/STM/ZEB	AS NOTES	JSH	Z:\\7714.0.CRANSTON\PHOTOS\7714.0 – PHOTOS.DOC

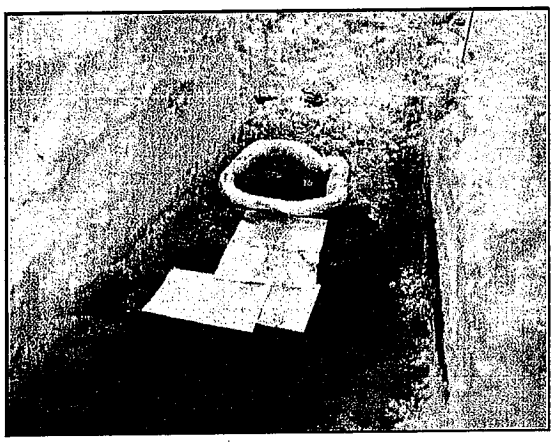

Photo 9
Location of newly uncovered stormwater catch basin CB-01 on February 11, 2013, located approximately 365 feet southeast of the initial release area, as viewed from the southwest.

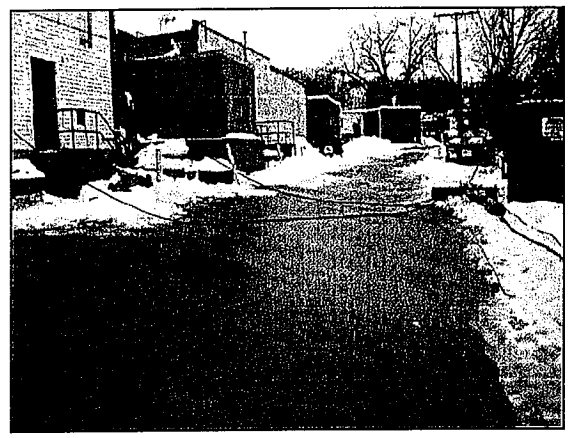

Photo 10
Site conditions in the initial release area at the completion of additional response actions on February 11, 2013, as viewed from the southeast.

Photo 11
Site conditions at the conclusion of additional snow removal activities on February 11, 2013, as viewed from the north.

Photo 12
Site conditions along Midway Road downgradient from the initial release area, following additional response actions on February 11, 2013, as viewed from the southeast.

CONECO *Engineers, Scientists & Surveyors* OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355			NO-PCB MODF RELEASE POLE NO. 2-50, ADJACENT TO 24 MIDWAY ROAD CRANSTON, RHODE ISLAND
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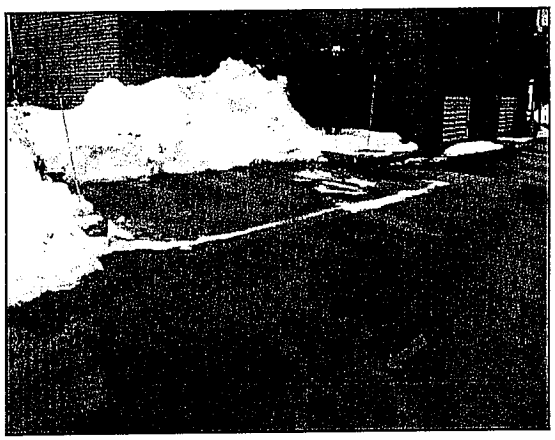

Photo 13
Site conditions prior to additional snow removal activities on February 12, 2013, as viewed from the southeast. Note the sheen from the snow melt along the asphalt pavement.

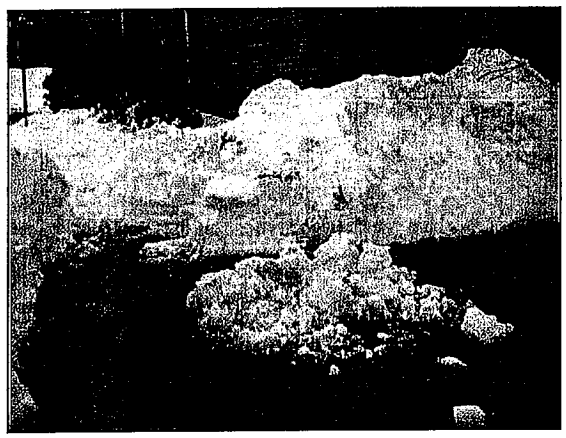

Photo 14
Site conditions during additional snow removal on February 12, 2013, as viewed from the east.

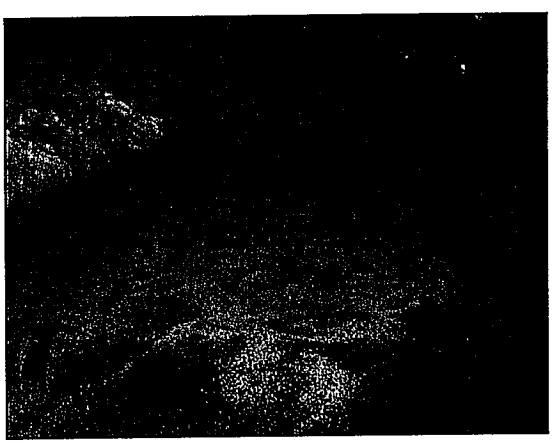

Photo 15
Site conditions during the cleaning of the asphalt pavement of Midway Road on February 12, 2013, as viewed from the southeast.

Photo 16
Site conditions along Midway Road downgradient from the initial release area, following prior to additional response actions on February 12, 2013, as viewed from the northwest.

CONECO *Engineers, Scientists & Surveyors* OFFICES THROUGHOUT NEW ENGLAND (800) 548-3355			NO-PCB MODF RELEASE POLE NO. 2-50, ADJACENT TO 24 MIDWAY ROAD CRANSTON, RHODE ISLAND
PHOTOGRAPHER	DATE	CHECKED	FILE NO.
KMO/STM/ZEB	AS NOTES	JSH	Z:\\7714.0.CRANSTON\PHOTOS\7714.0 – PHOTOS.DOC

Photo 17
Site conditions during additional snow removal activities on February 12, 2013, as viewed from the southeast.

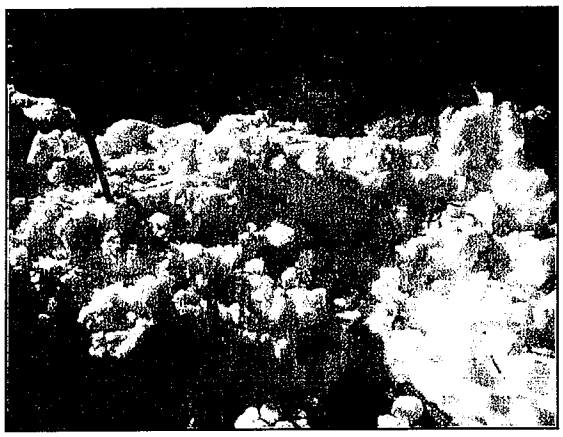

Photo 18
Site conditions following additional snow removal activities on February 12, 2013, as viewed from the north.

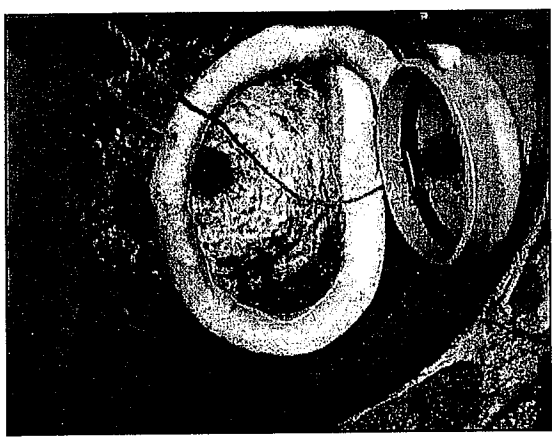

Photo 19
Interior of impacted stormwater catch basin CB-02, located along Midway Road, following response actions on February 12, 2013.

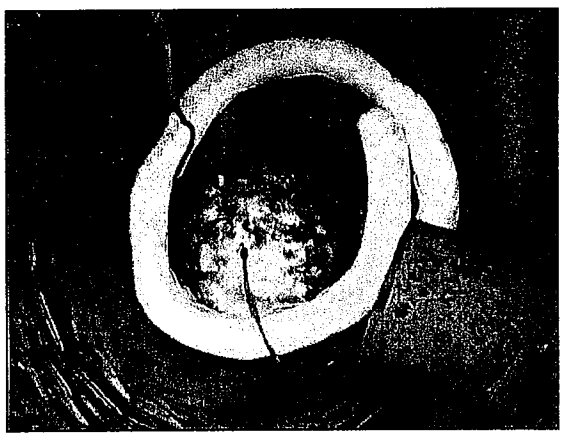

Photo 20
Interior of impacted stormwater catch basin CB-02, located along Garden Court, following response actions on February 12, 2013.

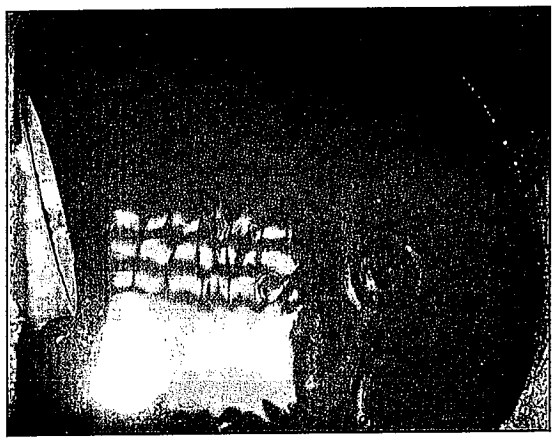

Photo 21
Interior of impacted stormwater catch basin CB-02, located along Midway Road, following absorbent boom removal on February 15, 2013.

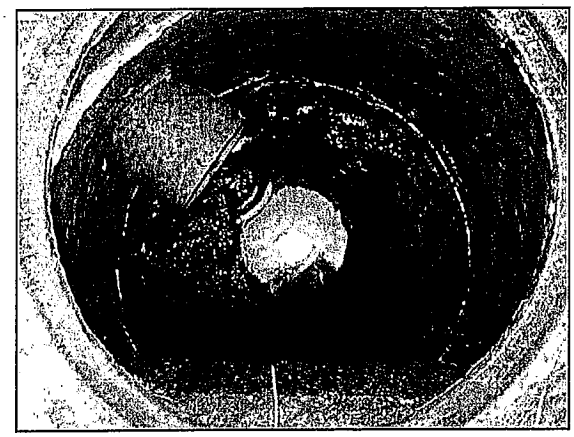

Photo 22
Interior of impacted stormwater catch basin CB-02, located along Garden Court, following absorbent boom removal on February 15, 2013.

R.I. ANALYTICAL
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Coneco Engineers & Scientists
Attn: . Mr. Sean McCormick
4 First Street
Bridgewater, MA 02324

Date Received: 2/11/2013
Date Reported: 2/11/2013
P.O. #: MUST HAVE PO NUMBI
Work Order #: 1302-02903

DESCRIPTION: POLE NO. 2-50, ADJACENT TO 24 MIDWAY DRIVE

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.
The Certificate of Analysis shall not be reproduced except in full, without written approval of R.I. Analytical.
Results relate only to samples submitted to the laboratory for analysis.
Test results are not blank corrected.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:

Sharon Baker
MIS / Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Coneco Engineers & Scientists
Date Received: 2/11/2013
Work Order #: 1302-02903

Sample # 001
SAMPLE DESCRIPTION: 548832
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/10/2013 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Polychlorinated Biphenyls (PCB'S) in oil						
Aroclor-1016	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1221	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1232	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1242	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1248	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1254	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Aroclor-1260	<1	1	mg/kg	SW-846 8082	2/11/2013 12:00	MLC
Surrogate			RANGE	SW-846 8082	2/11/2013 12:00	MLC
Decachlorobiphenyl	79		30-150%	SW-846 8082	2/11/2013 12:00	MLC
Tetrachloro-m-xylene (TCMX)	78		30-150%	SW-846 8082	2/11/2013 12:00	MLC

Sample # 002
SAMPLE DESCRIPTION: 65AJ10265
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/10/2013 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Polychlorinated Biphenyls (PCB'S) in oil						
Aroclor-1016	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1221	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1232	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1242	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1248	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1254	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Aroclor-1260	<1	1	mg/kg	SW-846 8082	2/11/2013 12:28	MLC
Surrogate			RANGE	SW-846 8082	2/11/2013 12:28	MLC
Decachlorobiphenyl	75		30-150%	SW-846 8082	2/11/2013 12:28	MLC
Tetrachloro-m-xylene (TCMX)	78		30-150%	SW-846 8082	2/11/2013 12:28	MLC

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Coneco Engineers & Scientists
Date Received: 2/11/2013
Work Order #: 1302-02903

Sample # 003
SAMPLE DESCRIPTION: WESTINGHOUSE I
SAMPLE TYPE: GRAB **SAMPLE DATE/TIME:** 2/10/2013 @ 16:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Polychlorinated Biphenyls (PCB'S) in oil							
Aroclor-1016	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1221	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1232	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1242	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1248	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1254	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Aroclor-1260	<1	1	mg/kg	SW-846 8082	2/11/2013	12:57	MLC
Surrogate			RANGE	SW-846 8082	2/11/2013	12:57	MLC
Decachlorobiphenyl	78		30-150%	SW-846 8082	2/11/2013	12:57	MLC
Tetrachloro-m-xylene (TCMX)	85		30-150%	SW-846 8082	2/11/2013	12:57	MLC

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
800-937-2580 • Fax: 401-738-1970

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
800-937-2580 • Fax: 978-568-0078

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type[c]	Preservation Code[P]	Matrix Code[M]	PCB 8082
2/10/13	5:00 pm	548032	G	1/6	NP	O	X
2/10/13	5:00 pm	65AJ10265	G	1/6	NP	O	X
2/10/13	4:30 pm	Westinghouse 1	G	1/6	NP	O	X
				3			

Client Information

Company Name: Geosyntec Engineers & Scientists
Address: 4 First Street
City / State / Zip: Bridgewater, MA 02324
Telephone: 508-697-3191 Fax: 508-697-5996
Contact Person: Sean McCormick

Project Information

Project Name: Pole No. 2-50, Adjacent to 24 Mining Drive
P.O. Number:
Project Number: 5[illegible]
Report To: John Aversalis
Phone: 508-962-7423 Fax
Sampled By: KM/SM
Email report to these addresses: javersalis@geosyntec.com, kelleyc@geosyntec.com, smccormick@geosyntec.com
Quote No:

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
Sean McCormick	2/11/13	8:45am	[illegible]	2-11-13	8:45

Turn Around Time

Normal | EMAIL Report
5 Business days. Possible surcharge
✓ Rush – Date Due: 2/11/13

Project Comments

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3 MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt: 1° °C

Lab Use Only

Sample Pick-Up Only
RIAL sampled: attach field hours
Shipped on ice
Workorder No: 1302-00903

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH4Cl, H=HCl, M=MeOH, N=HNO3, NP=None, S=H2SO4, SB=NaHSO4, SH=NaOH, T=Na2S2O3, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O= Oil

TRP 4123

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) RIR857001 006 SEP# 3.0 2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	RIP 333333333	1	(800) 483-3138	004003712 FLE

GENERATOR

5. Generator's Name and Mailing Address
Narragansett Electric Company
10 Dorman Road
Wayland, MA 02401
Generator's Phone: (781) 907-3647 ATTN Susan Drischler

Generator's Site Address (if different than mailing address)
1 Midway Drive
Cranston, RI 02920

5. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Clean Harbors Braintree Inc
1 Hill Avenue
Braintree, MA 02184
Facility's Phone: (781) 380-7100
U.S. EPA ID Number: MAD053452827

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON DOT REGULATED MATERIAL, OIL WATER	1	TT	450	G			
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.U506088

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Agent for Narragansett Electric Co — Kevin Hurst — Signature: Kevin Hurst — Month 02 Day 11 Year 13

TRANSPORTER INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike McLaughlin — Signature — Month 12 Day 11 Year 13
Transporter 2 Printed/Typed Name: Michael Rocci — Signature — Month 12 Day 12 Year 13

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H130 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Bruce Hoovia — Signature — Month 12 Day 12 Year 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Clean Harbors has the appropriate permits for and will deliver the waste to the generator's disposal site.

RI 4967001-001
006

51839

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

1. UNIFORM HAZARDOUS WASTE MANIFEST	2. Generator ID Number: RIP 333 333 333	2. Page 1 of: 1	3. Emergency Response Phone: 800 483 3718	4. Manifest Tracking Number: 006150519 FLE

5. Generator's Name and Mailing Address:
MARASOLBEH Electric Company
45 SWAN RD
WATERS MA 02451
Generator's Phone: 781 873 5647 Mr. Sean McCo

Generator's Site Address (if different than mailing address):
1 MOWRY RD
CRANSTON RI 02920

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039388830

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors of Braintree Inc, 1 Hilliard Braintree MA 02184 — U.S. EPA ID Number: MAD053452637

Facility's Phone: 781 380-7100

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
	1. NON DOT Regulated Material, oily Solids	007	DM	3,000	P	D001	D040
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1.050606. 7x55

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Agent for Hammond Electric Sean McCormick — Signature: Sean McCormick — Month 02 Day 12 Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: James Collins — Signature: [signature] — Month 02 Day 12 Year 13
Transporter 2 Printed/Typed Name: Mike McLaughlin — Signature: [signature] — Month 2 Day 13 Year 13

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a.
Printed/Typed Name: Hugh Frost — Signature: [signature] — Month 2 Day 13 Year 13

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Mike 2 3-4-13

Tk# 4121

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) RI4-97001-100 SEP 17 2013 Form Approved. OMB No. 2050-0039

1. UNIFORM HAZARDOUS WASTE MANIFEST	2. Generator ID Number: RI333333333	2. Page 1 of: 1	3. Emergency Response Phone: (800) 468-3718	4. Manifest Tracking Number: 004003751 FLE

5. Generator's Name and Mailing Address:
National Grid Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: (781) 907-3647 ATTN Susan Everett

Generator's Site Address (if different than mailing address):
24
Midway Drive
Cranston, RI 02920

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322260

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors of Braintree Inc, 5 Hill Avenue, Braintree, MA 02184 — U.S. EPA ID Number: MAD053452627
Facility's Phone: (781) 380-7100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	NON DOT REGULATED MATERIAL (ONLY SOIL)	001	TT	2	Y	MA01	RD10	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information:
[illegible]

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Kristen O'Leary, Agent of NGEC — Signature: [signature] — Month 02 Day 13 Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of Entry/Exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Adriano Brito — Signature: Adriano Brito — Month 02 Day 13 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator): U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator): Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H141 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible] — Signature: [signature] — Month 02 Day 13 Year 13

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05). Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Clean Harbors hereby acknowledges receipt of the waste listed on this manifest and will accept the waste listed on this manifest.

TR# 5139

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) FI4997061CHK SK PTW 3/2/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number R113333333333	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3748	4. Manifest Tracking Number 004003761 FLE

5. Generator's Name and Mailing Address
Narragansett Electric Company
40 Sylvan Road
Waltham, MA 02451
Generator's Phone: 781-907-3047 ATTN Susan Poulin

Generator's Site Address (if different than mailing address)
1 Midway Drive
Cranston, RI 02920

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Clean Harbors of Braintree Inc, 1 Hill Avenue, Braintree, MA 02184 — U.S. EPA ID Number: MAD052452687
Facility's Phone: 781-380-7400

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. NON DOT REGULATED MATERIAL ONLY DEBRIS	001	DM	75	P	MA01	RC16	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. USTOIL
2.

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: On behalf of generator Sean McCormick — Signature: Sean McCormick — Month 02 Day 15 Year 13

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit:
Transporter signature (for exports only): — Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Adriano Brito — Signature: Adriano Brito — Month 02 Day 15 Year 13
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H133 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Hugues Hoang — Signature: — Month 2 Day 15 Year 13

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

Please fax to the attn/private number on and will accept the waste for recycling on all shipments.

APPENDIX C

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

City of Cranston
Section II.A - Structural BMPs

BMP ID	Location	Name of BMP Owner/Operator	Description of BMP
ST16613	Ocean Rd. Stillhouse Cove	City of Cranston	Vortechnics
ST16615	Narraganset Blvd, Stillhouse Cove	City of Cranston	Vortechnics
ST16606	Windsor Road, Stillhouse Cove	City of Cranston	Vortechnics
ST210258	Shaw Avenue	City of Cranston	Vortechnics
ST20003,ST20004	Norwood Avenue	City of Cranston	Vortechnics
ST210347	Armington Street	City of Cranston	Vortechnics

www.rhodybeat.com

Cranston Herald

THURSDAY, MARCH 6, 2014 2 SECTIONS WITH SUPPLEMENTS • 32 PAGES • 50¢

City of Cranston
Notice of Plan Availability

As required by RIPDES Phase II Storm Water Permit #RIR040012, the City of Cranston announces the availability of the 2013 RIPDES Small MS4 Annual Report to be submitted to RIDEM.

Cranston must submit the report to DEM by March 10, 2014.

A copy of the draft report is available for public review prior to submission at the Department of Public Works, City Hall, Room 109 from 8:30 am to 4:30 pm Monday through Friday.

Allan W. Fung
Mayor

Kenneth R. Mason, P.E.
Director, Public Works

3/6/14