STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI
GOVERNOR

DAWN R. GALLAGHER
COMMISSIONER

Auto Wash Inc.
Attn: Kenneth Couperthwait, President
26 Folcutt Road
Kittery Point, Maine 03905

October 19, 2005

RE: Permit Compliance System (PCS) Tracking Number # ME0036791
Maine Waste Discharge License (WDL) Application # W008225-5S-A-N
Final License

Dear Mr. Couperthwait:

Enclosed please find a copy of your **final** MEDPES permit/Maine WDL which was approved by the Department of Environmental Protection. Please read the permit and its attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State Law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"

We would like to make you aware of the fact that your monthly Discharge Monitoring Reports (DMR) may not reflect the revisions in this licensing action for several months however, you are required to report applicable test results for parameters required by this licensing action that do not appear on the DMR. Please see the attached April 2003 O&M Newsletter article regarding this matter.

If you have any questions regarding this matter, please feel free to call me at 287-7658.

Sincerely,

David Silver
Division of Water Resource Regulation
Bureau of Land and Water Quality

Enc. Matt Hight, DEP/SMRO; Dave Webster, USEPA;

WDS:W008225

DMR Lag

(reprinted from April 2003 O&M Newsletter)

When the Department renews discharge permits, the parameter limits may change or parameters may be added or deleted. In some cases, it is merely the replacement of the federally issued NPDES permit with a state-issued MEPDES permit that results in different limits. When the new permit is finalized, a copy of the permit is passed to our data entry staff for coding into EPA's Permits Compliance System (PCS) database. PCS was developed in the 1970's and is not user-friendly. Entering or changing parameters can take weeks or even months. This can create a lag between the time your new permit becomes effective and the new permit limits appearing on your DMRs. If you are faced with this, it can create three different situations that have to be dealt with in different ways.

1. If the parameter was included on previous DMRs, but only the limit was changed, there will be a space for the data. Please go ahead and enter it. When the changes are made to PCS, the program will have the data and compare it to the new limit.

2. When a parameter is eliminated from monitoring in your new permit, but there is a delay in changing the DMR, you will have a space on the DMR that needs to be filled. For a parameter that has been eliminated, please enter the space on the DMR for that parameter only with "NODI-9" (No Discharge Indicator Code #9). This code means monitoring is conditional or not required this monitoring period.

3. When your new permit includes parameters for which monitoring was not previously required, and coding has not caught up on the DMRs, there will not be any space on the DMR identified for those parameters. In that case, please fill out an extra sheet of paper with the facility name and permit number, along with all of the information normally required for each parameter (parameter code, data, frequency of analysis, sample type, and number of exceedances). Each data point should be identified as monthly average, weekly average, daily max, etc. and the units of measurement such as mg/L or lb/day. Staple the extra sheet to the DMR so that the extra data stays with the DMR form. Our data entry staff cannot enter the data for the new parameters until the PCS coding catches up. When the PCS coding does catch up, our data entry staff will have the data right at hand to do the entry without having to take the extra time to seek it from your inspector or from you.

EPA is planning significant improvements for the PCS system that will be implemented in the next few years. These improvements should allow us to issue modified permits and DMRs concurrently. Until then we appreciate your assistance and patience in this effort.

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

AUTO WASH, INC.	)	PROTECTION AND IMPROVEMENT
ELIOT, YORK COUNTY	)	OF WATERS
COMMERCIAL CAR WASH	)	WASTE DISCHARGE LICENSE
MEU508225	)	
#W008225-5S-A-N **APPROVAL**	)	**NEW LICENSE**

Pursuant to the provisions of Maine Law 38 M.R.S.A., Section 414-A et seq., and applicable regulations, the Department of Environmental Protection ("Department") has considered the application of AUTO WASH, INC., with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

The applicant proposes to construct and operate a subsurface wastewater disposal system (SWDS) that is designed to treat 1,950 gallons of wastewater per day generated from a commercial car wash facility on a 4.63 acre parcel located on the east side of Route 236 in the Town of Eliot. The applicant has submitted an application for approval of a new Waste Discharge License (WDL) which the Department has assigned a number of #W008225-5S-A-N. The system will include two 1,500 gallon recirculation tanks, an activated carbon filtration tank, a 1,000 gallon septic tank, a 2,500 gallon pump chamber, and a 10,400 square foot stone bed waste water disposal field (SWDS). The system has been assigned a National Pollutant Discharge Elimination System, Permit Compliance System (PCS) tracking number MEU508225 for data gathering and retrieval purposes.

PERMIT SUMMARY

This licensing action establishes effluent limitations and/or monitoring requirements for flow, biochemical oxygen demand (BOD), total suspended solids (TSS), pH, oils & grease, certain petroleum compounds, and specific elements at the SWDS leachfield. The Department may impose additional limitations, monitoring provisions, require the installation of ground water monitoring wells, or other provisions in the event that outfall monitoring indicates significant variation of discharge concentrations or due to other indications of environmental impacts from the system.

CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated September 12, 2005, and subject to the Conditions listed below, the Department makes the following conclusions:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.

2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.

3. The provisions of the State's antidegradation policy, 38 MRSA Section 464(4)(F), will be met, in that:

   (a) Existing groundwater water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;

   (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;

   (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause of contribute to the failure of the water body to meet the standards of classification;

   (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification, that higher water quality will be maintained and protected; and

   (e) Where a discharge will result in lowering the existing quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.

4. The discharge will be subject to effluent limitations that require application of best practicable treatment.

ACTION

THEREFORE, the Department APPROVES the above noted application of the AUTO WASH, INC. to discharge treated waste waters from a subsurface wastewater disposal system to the soil above groundwater, Class GW-A, SUBJECT TO THE FOLLOWING CONDITIONS, and all applicable standards and regulations including:

1. "Standard Conditions of Industrial Discharge Licenses," revised August 14, 1996, copy attached.

2. The attached Special Conditions, including any effluent limitations and monitoring requirements.

3. The term of this license is five (5) years from the date of signature.

DONE AND DATED AT AUGUSTA, MAINE, THIS 21st DAY OF October, 2005.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
Dawn Gallagher, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application August 19, 2005.

Date of application acceptance: August 24, 2005.

FILED
OCT 21 2005
BOARD OF ENVIRONMENTAL PROT.
STATE OF MAINE

Date filed with Board of Environmental Protection _____.

This Order prepared by David Silver, BUREAU OF LAND & WATER QUALITY

W0082255SAN 18OCT05

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of this license and lasting through license expiration, the licensee is authorized to discharge treated process waste water from **Outfall #001. Outfall #001** is defined as the discharge from the second recirculation tank. Such discharges to the leachfield shall be limited and monitored by the licensee as specified below:

Effluent Characteristic	Discharge Limitations	Minimum Monitoring Requirements	
	Monthly Average (as specified)	Measurement Frequency (as specified)	Sample Type (as specified)
Flow *[50050]*	1,950 GPD *[03]*	1/Quarter[1] *[01/90]*	Measure[2] *[MS]*
Conductivity *[00094]*	Report, uhmos/cm *[11]*	1/Quarter[1] *[01/90]*	Measure *[MS]*
BOD *[00310]*	Report, mg/l *[19]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Temperature *[00011]*	Report, degree Farhenheit *[15]*	1/Quarter[1] *[01/90]*	Measure *[MS]*
MTBE[3] *[22417]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Benzene[3] *[34030]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Toluene[3] *[34010]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Ethylbenzene[3] *[78113]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Xylene (total) [3] *[81551]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
DRO[3] *[no code available]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
GRO[3] *[no code available]*	Report, ug/l *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
pH *[00400]*	Report, S.U. *[12]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Zinc *[01092]*	Report, mg/L *[19]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Chromium *[01034]*	Report, ug/L *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Oil & Grease *[03582]*	Report, mg/L *[19]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Lead *[01051]*	Report, ug/L *[28]*	1/Quarter[1] *[01/90]*	Grab *[GR]*
Chlorides *[00940]*	Report, mg/L *[19]*	1/Quarter[1] *[01/90]*	Grab *[GR]*

The italicized numeric values bracketed in the table above and the table that follows are code numbers that Department personnel utilized to code the monthly Discharge Monitoring Reports.

Footnotes:

1. The licensee shall monitor and report Outfalls #001 parameters monthly. After an initial 18 months of operation, the measurement frequency of monitoring may be modified upon request by the licensee unless the Department finds that more frequent monitoring is warranted based on the initial 18 months of data from the operation of the system.
2. Flow shall be calculated as follows: The total discharge by liquid (gallons) measure during the calendar month divided by the number of days in the month that the facility was operating.
3. MTBE, DRO, and GRO are possible constituents in the wastewater flow treated by the system and are compounds that are defined respectively as "Methyl-Tertiary-Butyl-Ether, Diesel-Range-Organics, and Gasoline-Range-Organics".

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning the effective date of this license and lasting through license expiration, the licensee is authorized to discharge treated process waste water from **Outfall #002** to groundwater, Class GW-A. **Outfall #002** is defined as the discharge from the pump station. Such discharges to the leachfield shall be limited and monitored by the licensee as specified below:

Effluent Characteristic	Discharge Limitations	Minimum Monitoring Requirements	
	Monthly Average (as specified)	Measurement Frequency (as specified)	Sample Type (as specified)
Flow *[50050]*	1,950 GPD *[03]*	1/Month(1) *[01/30]*	Measure(2) *[MS]*
Conductivity *[00094]*	Report, uhmos/cm *[11]*	1/Month(1) *[01/30]*	Measure *[MS]*
BOD *[00310]*	Report, mg/l *[19]*	1/Month(1) *[01/30]*	Grab *[GR]*
Temperature *[00011]*	Report, degree Farhenheit *[15]*	1/Month(1) *[01/30]*	Measure *[MS]*
MTBE(3) *[22417]*	35 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
Benzene(3) *[34030]*	5 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
Toluene(3) *[34010]*	1,000 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
Ethylbenzene(3) *[78113]*	700 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
Xylene (total) (3) *[81551]*	10,000 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
DRO(3) *[no code available]*	50 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
GRO(3) *[no code available]*	50 ug/l *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
pH *[00400]*	Report, S.U. *[12]*	1/Month (1) *[01/30]*	Grab *[GR]*
Zinc *[01092]*	5 mg/L *[19]*	1/Month(1) *[01/30]*	Grab *[GR]*
Chromium *[01034]*	100 ug/L *[28]*	1/Month(1) *[01/30]*	Grab *[GR]*
Oil & Grease *[03582]*	Report, mg/L *[19]*	1/Month (1) *[01/30]*	Grab *[GR]*
Lead *[01051]*	15 ug/L *[28]*	1/Month (1) *[01/30]*	Grab *[GR]*
Chlorides *[00940]*	Report, mg/L *[19]*	1/Month (1) *[01/30]*	Grab *[GR]*

The italicized numeric values bracketed in the table above and the table that follows are code numbers that Department personnel utilized to code the monthly Discharge Monitoring Reports.

Footnotes:

1. The licensee shall monitor and report Outfalls #002 parameters monthly. After an initial 18 months of operation, the measurement frequency of monitoring may be modified upon request by the licensee unless the Department finds that more frequent monitoring is warranted based on the initial 18 months of data from the operation of the system.

2. Flow shall be calculated as follows: The total discharge by liquid (gallons) measure during the calendar month divided by the number of days in the month that the facility was operating.

3. MTBE, DRO, and GRO are possible constituents in the wastewater flow treated by the system and are compounds that are defined respectively as "Methyl-Tertiary-Butyl-Ether, Diesel-Range-Organics, and Gasoline-Range-Organics". In the event that sampling detects levels of these parameters exceeding their respective numeric limits, the licensee shall conduct additional testing to include EPA test method 8260 and 8270 for the presence and extent of semi-volatile, and volatile organic compounds.

SPECIAL CONDITIONS

B. NARRATIVE EFFLUENT LIMITATIONS

1. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the usage designated by the classification of the groundwater.
2. Notwithstanding specific conditions of this license the effluent must not lower the quality of any classified body of groundwater below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

C. MONITORING AND REPORTING

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department' Regional Office such that the DMR's are received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. A signed copy of the DMR and all other reports required herein shall be submitted to the following address:

Department of Environmental Protection
Bureau of Land & Water Quality
312 Canco Road
Portland, Maine 04103

D. NOTIFICATION REQUIREMENT

The licensee shall notify the Department of the following.

1. Any increase of volume above the 1,950 GPD flow to the system or any change in the character of pollutants being introduced into the wastewater collection and treatment system.
2. For the purposes of this section, adequate notice shall include information on:
   (a) the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
   (b) any anticipated impact of the change in the quantity or quality of the wastewater to be discharged from the treatment system.

E. UNAUTHORIZED DISCHARGES

The licensee is authorized to discharge only in accordance with the terms and conditions of this license and only from Outfall 001 and 002 (to the septic leachfield area). Discharges of wastewater from any other point source are not authorized under this license.

SPECIAL CONDITIONS

F. MAINTENANCE AND OPERATIONS

The licensee shall ensure that system components are properly maintained and operated. The licensee shall ensure that the following maintenance and operations provisions are implemented:

Subsurface Tanks

1. Inspections of the system components and tanks that are connected to the subsurface wastewater disposal system to determine levels of accumulated grease or sludge on a monthly basis for the first 18 months of operation (then quarterly thereafter). The licensee shall maintain a record of the annual inspections of all the system components (including settling tank inspections), the name of the inspector(s), date of inspections, and the results of the inspections, observations taken, and any maintenance recommended to be performed. A qualified inspector knowledgeable of septic system function and operations shall perform inspections.
2. Pumping of the tank at least once every year, or more often if indicated by the inspections. The licensee shall maintain a record of settling tank pumping including the location and date of pumping, quantity of material removed, other relevant observations.

Recycle Treatment System

1. The licensee shall maintain reports of system inspections, quantity of solids removed, and frequency of maintenance, including records of system performance observations, and the dates of maintenance. The licensee shall inspect the system prior to daily operation and clean solid materials removed by filtration screens in the system.
2. The licensee shall maintain reports of the quantity of flow discharged to the system on a monthly basis including inspections of the subsurface leach field performance at the distribution box (or observations ports) in the system (height of water level, and characteristics of grease/sludge components, or short circuiting in the wastewater disposal field).

Copies of the reports of inspections performed must be retained by the licensee and must be made available to the Department staff upon request.

G. RE-OPENER CLAUSE

Upon evaluation of test results required by Special Condition A of this licensing action, additional site-specific data or any other pertinent information or test results obtained during the term of this license, the Department may, at anytime and with notice to the licensee, modify this license to: (1) include effluent limits necessary to control specific pollutants where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded: (2) require additional monitoring if results on file are inconclusive; or (3) change monitoring requirements and or limitations based on new information.

H. SEVERABILITY

In the event that any provision, or part thereof, of this permit is declared to be unlawful by a reviewing court, the remainder of the permit shall remain in full force and effect, and shall be construed and enforced in all respects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

MAINE WASTE DISCHARGE LICENSE

FACT SHEET

Date: September 12, 2005

PERMIT COMPLIANCE SYSTEM TRACKING NUMBER: **MEU508225**
LICENSE NUMBER: **W-008225-5S-A-N**

NAME AND MAILING ADDRESS OF APPLICANT:

AUTO WASH, INC.
26 Folcutt Road
Kittery Point, Maine 03905

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

AUTO WASH, INC.
State Route 236/MacLellan Drive
Eliot, Maine

COUNTY WHERE FACILITY DISCHARGE OCCURS: **York County**

RECEIVING WATER/ CLASSIFICATION: **Groundwater/Class GW-A**

COGNIZANT OFFICIAL AND TELEPHONE NUMBER: **Mr. Kenneth Couperthwait**
(207) 252-4647

1. APPLICATION SUMMARY

a. Application: The applicant proposes to construct and operate a subsurface wastewater disposal system (SWDS) that is designed to treat 1,950 gallons of wastewater per day generated from a commercial car wash facility on a 4.63 acre parcel located on the east side of Route 236 in the Town of Eliot. The applicant has submitted an application for approval of a new Waste Discharge License (WDL) which the Department has assigned a number of #W008225-5S-A-N. The system will include two 1,500 gallon recirculation tanks, an activated carbon filtration tank, a 1,000 gallon septic tank, a 2,500 gallon pump chamber, and a 10,400 square-foot stone bed waste water disposal field. The system has been assigned a National Pollutant Discharge Elimination System, Permit Compliance System (PCS) tracking number MEU508225 for data gathering and retrieval purposes.

1. APPLICATION SUMMARY (cont'd)

b. History: The most recent licensing actions include the following:

August 19, 2005 – The applicant submitted an application for approval under the Waste Discharge License (WDL) program for the disposal of waste water generated by the proposed car wash facility.

August 24, 2005 – The Department accepted the application for the subsurface disposal of waste water generated by Auto Wash, Inc. in Eliot, Maine.

c. Source Description: The subsurface wastewater disposal system will receive wastewater generated from two automatic car wash bays. The system will also receive wastewater from one lavatory (for employees only, no public restroom facilities are provided) located in the adjacent structure (no floor drains or any other connections will be made from the adjacent structure to the system). The estimated flow from the lavatory is 350 gallons per day and a flow meter will be installed to measure the quantity of water supplied. The design engineer has recommended that the system be constructed and maintained in accordance with the manufacturer's recommendations. Maintenance will include periodic inspections of the system components, evaluation of the collection system for leaks or malfunctions, pump-out of the septic tank to prevent the migration of solids to the leachfield area, and daily evaluation of the flow rate to the system.

Wastewater Treatment: Wastewater generated by the car wash facility is directed to a proprietary recycling system where it is disinfected with an ozonation process and then filtered. Much of the recycled wastewater is reclaimed in the proprietary system to be used in subsequent car washing, however the overall process requires make-up water and rinse water to complete the process. The car wash facility uses approximately 16 gallons per car wash in the automatic bays. Based on an estimated 100 cars per day and three employees, the total flow estimated to be generated by the facility is 1,950 gallons per day.

Wastewater is directed to two-1,500 gallon recirculation tanks installed in series that will allow separation of solids from the wastewater. The supernatant from the last tank is directed to the proprietary activated carbon filtration system for filtering particles greater than 5 microns and disinfection by ozonation. Waste water then is directed to a pump chamber that routes the liquid to a 10,400 square foot stone bed leachfield located easterly of the car wash. The Department finds that records of the maintenance and inspections of the system and of the components must be retained by the applicant and made available to the Department upon request.

2. CONDITIONS OF PERMITS:

Maine law, 38 M.R.S.A. Section 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require application of best practicable treatment (BPT), be consistent with the U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Water Classification System. In addition, 38 M.R.S.A., Section 420 requires the regulation of toxic substances at the levels set forth for Federal Water Quality Criteria as published by the U.S. Environmental Protection Agency pursuant to the Clean Water Act.

3. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS:

Outfall #001 and 002; Flow & Monitoring: The monthly average flow limitation of 1,950 gallons per day is being established in this licensing action based on the design of the system. The applicant shall periodically monitor the performance of the system in accordance with the manufacturer's recommendation, submitted to the Department on August 19, 2005. The manufacturer's maintenance recommendations include provisions for: pumping the settling tanks on an annual basis, cleaning the filtration screens daily, and daily inspections of the proprietary recycling system components.

The applicant shall submit monthly flow, BOD, TSS and other parameter data of the quantity and quality of wastewater discharged to the subsurface wastewater disposal field for outfall #002 and quarterly for outfall #001. The applicant has not proposed to install monitoring wells as part of the monitoring program associated with the system. The Department finds that the treatment system is designed to attenuate pollutant load to the ground water, that consistent discharge effluent is anticipated, and the sizing of the proprietary systems and leachfield area are satisfactory in minimizing impacts to the environment. In the event that effluent monitoring detects potential contamination, or is significantly variable, the licensee may be required to conduct additional testing, evaluate other parameters, develop and sample monitoring wells associated with the system, or other measures that the Department determines to be appropriate.

MTBE, Benzene, Toluene, Ethylbenzene, Xylene, DRO, and GRO: These volatile/semi-volatile organic compounds are typically found in vehicle fuels. These materials may leak from vehicles or be produced by the fuel combustion process. Some of these compounds are health hazards or have maximum exposure guidelines as promulgated by the Bureau of Health, Maine Department of Human Services. This licensing action is establishing daily maximum limits of 35 micrograms (ug)/L for MTBE, 5 ug/L for Benzene, 1,000 ug/L for Toluene, 700 ug/L for Ethylbenzene, 10,000 ug/L for Xylene, 50 ug/L for DRO and 50 ug/L for GRO.

3. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (Cont'd):

Lead, Chlorides, Zinc, Chromium, and other parameters – This licensing action is establishing daily maximum limits of 0.015 mg/L for lead, and 0.1 mg/L for chromium. This licensing action also is establishing a daily maximum limit of 250 mg/L for chlorides, and 5 mg/L for zinc. The numeric limits are based on Drinking Water Standards and are considered best practicable treatment. Other parameters are required to be reported to the Department but no numeric limitations have been established in this licensing action. Monitoring frequency for each parameter is 1/Month to be consistent with the 1/Month monitoring frequency for similar types of facilities for outfall #002 (and quarterly for outfall #001). Many of these elements are found in the natural geologic formations and may be mobilized by changes in groundwater chemistry due to the facility, or found in the wastewater components generated at the facility.

4. RECEIVING WATER QUALITY STANDARDS:

Maine law, 38 M.R.S.A., Section 470 indicates that groundwater at the point of discharge is classified as Class GW-A receiving waters. Maine law, 38 M.R.S.A., Section 465-C, describes the standards for waters classified as Class GW-A as the highest classification of groundwater and shall be of such quality that it can be used for public water supplies. These waters shall be free of radioactive matter or any matter that imparts color, turbidity, taste or odor which would impair usage of these waters, other than that occurring from natural phenomena.

5. RECEIVING WATER QUALITY CONDITIONS:

The 2004 Integrated Water Quality Monitoring and Assessment Report, prepared by the Department pursuant to Section 305(b) of the Federal Water Pollution Control Act indicates that groundwater in the vicinity of the proposed leachfield disposal area is attaining the standards of its assigned classification, Class GW-A.

6. DISCHARGE IMPACT ON RECEIVING WATER QUALITY:

As licensed, the Department has determined the existing water uses will be maintained and protected and the discharge will not cause or contribute to the failure of the groundwater to meet standards for Class GW-A classification.

7. PUBLIC COMMENTS:

Public notice of this application was made in the Portsmouth Herald newspaper on or about August 16, 2005. The Department receives public comments on an application until the date a final agency action is taken on that application. Those persons receiving copies of draft permits shall have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to Chapter 522 of the Department's rules.

8. DEPARTMENT CONTACTS:

Additional information concerning this permitting action may be obtained from and written comments should be sent to:

David Silver
Division of Water Resource Regulation
Bureau of Land and Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone (207) 287-3901

9. RESPONSE TO COMMENTS:

During the period of September 12, 2005 through final agency action, the Department solicited comments on the proposed draft Waste Discharge License to be issued to Auto Wash, Inc for the wastewater discharge. The Department did not receive substantive comments during the public comment period. Therefore, a Response to Comments section was not prepared.

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION

City, Town, or Plantation	Eliot
Street or Road	Route 236
Subdivision, Lot #	

>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<

The Subsurface Wastewater Disposal System ***shall not*** be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

OWNER/APPLICANT INFORMATION

Name (last, first, MI): Couperthwait, Kenneth — ■ Owner ☐ Applicant

Mailing Address of Owner/Applicant	26 Folcutt Road
	Kittery Point, ME 03905
Daytime Tel. #	(207) 252-4547

Municipal Tax Map # 45 Lot # 14

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant _____ Date _____

CAUTION: INSPECTION REQUIRED

I have inspected the installation authoirzed above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(1st) date approved _____

Local Plumbing Inspector Signature _____ (2nd) date approved _____

PERMIT INFORMATION

TYPE OF APPLICATION

- ■ 1. First Time System
- ☐ 2. Replacement System
  - Type replaced: _____
  - Year installed: _____
- ☐ 3. Expanded System
  - ☐ a. Minor Expansion
  - ☐ b. Major Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES

- ■ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 3. Replacement System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS

- ■ 1. Complete Non-engineered System
- ☐ 2. Primitive System (graywater & alt. toilet)
- ☐ 3. Alternative Toilet, specify: _____
- ☐ 4. Non-engineered Treatment Tank (only)
- ☐ 5. Holding Tank, _____ gallons
- ☐ 6. Non-engineered Disposal Field (only)
- ☐ 7. Separated Laundry System
- ☐ 8. Complete Engineered System (2000 gpd or more)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered Disposal Field (only)
- ☐ 11. Pre-treatment, specify: _____
- ☐ 12. Miscellaneous Components

SIZE OF PROPERTY

4.63 ☐ SQ. FT. ■ ACRES

SHORELAND ZONING

☐ Yes ■ No

DISPOSAL SYSTEM TO SERVE

- ☐ 1. Single Family Dwelling Unit, No. of Bedrooms: ____
- ☐ 2. Multiple Family Dwelling, No. of Units: ____
- ■ 3. Other: Car Wash (specify)

Current Use ☐ Seasonal ■ Year Round ☐ Undeveloped

TYPE OF WATER SUPPLY

■ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private ☐ 4. Public ☐ 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

- ■ 1. Concrete
  - ■ a. Regular
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other: _____

CAPACITY: 1,000 GAL.

DISPOSAL FIELD TYPE & SIZE

- ■ 1. Stone Bed ☐ 2. Stone Trench
- ☐ 3. Proprietary Device
  - ☐ a. cluster array ☐ c. Linear
  - ☐ b. regular load ☐ d. H-20 load
- ☐ 4. Other: _____

SIZE: 10,400 ☐ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT

■ 1. No ☐ 2. Yes ☐ 3. Maybe

If Yes or Maybe, specify one below:

- ☐ a. multi-compartment tank
- ☐ b. ___ tanks in series
- ☐ c. increase in tank capacity
- ☐ d. Filter on Tank Outlet

DESIGN FLOW

1,950 gallons per day

BASED ON:

- ☐ 1. Table 501.1 (dwelling unit(s))
- ■ 2. Table 501.2 (other facilities)

SHOW CALCULATIONS

--- for other facilites ---

SEE ATTACHED 22"x34" DETAIL SHEET

☐ 3. Section 503.0 (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN

9 / D /

at Observation Hole # 104

Depth 13 "

of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

- ☐ 1. Small---2.0 sq. ft. / gpd
- ☐ 2. Medium---2.6 sq. ft. / gpd
- ☐ 3. Medium---Large 3.3 sq. f.t / gpd
- ☐ 4. Large---4.1 sq. ft. / gpd
- ■ 5. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP

- ■ 1. Not Required
- ☐ 2. May Be Required
- ☐ 3. Required

Specify only for engineered systems:

DOSE: _____ gallons

SITE EVALUATOR STATEMENT

I certify that on 9/21/04 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature	234 — SE #	8/15/05 — Date
LEONARD LORD — Site Evaluator Name Printed	603-742-6665 — Telephone Number	llord@carexecosciences.com — E-mail Address

CAREX II DI10

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

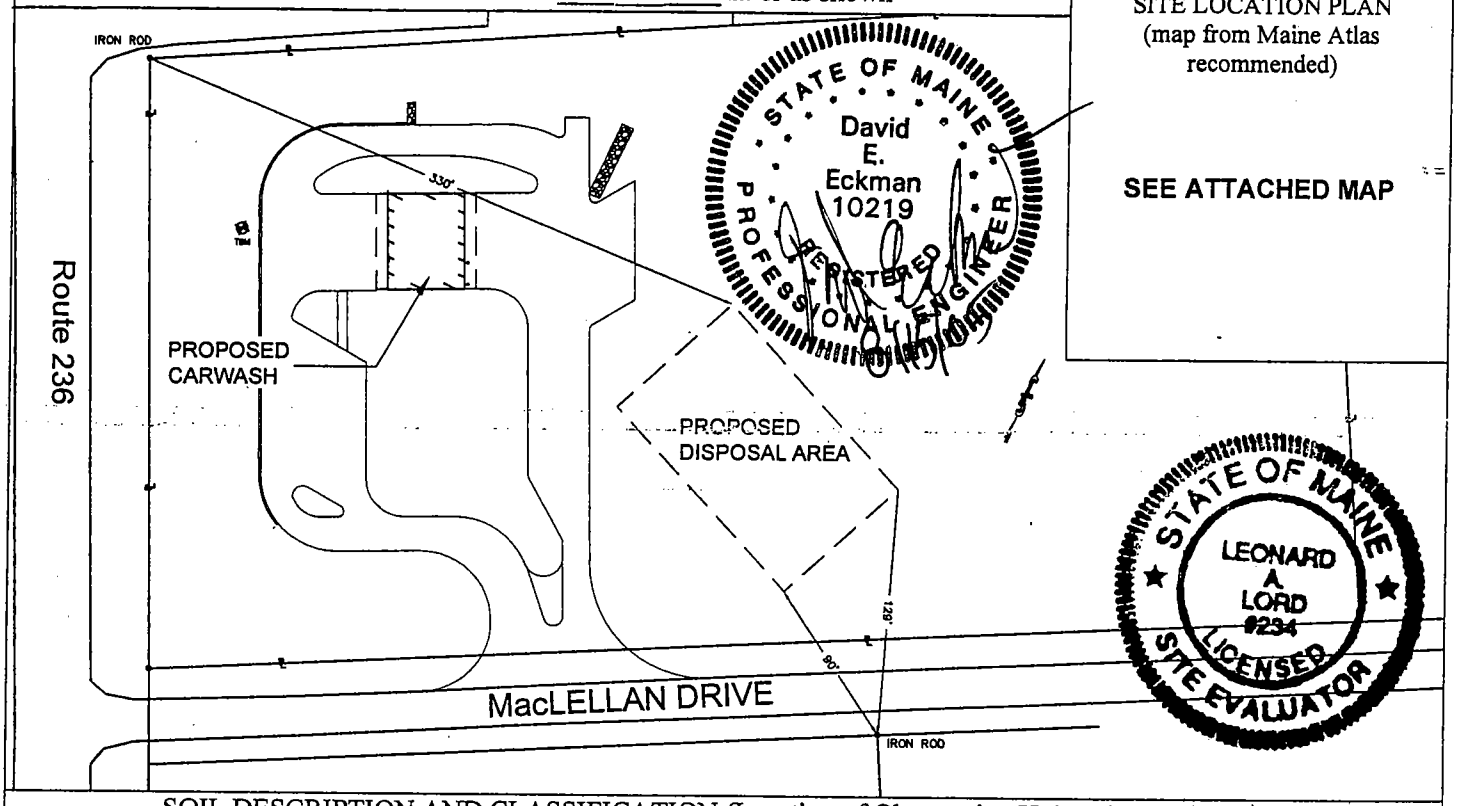
HHE-200 Rev. 8/01

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
Eliot	Route 236	Kenneth Couperthwait

SITE PLAN Scale 1" = 100' ft. or as shown



SITE LOCATION PLAN
(map from Maine Atlas recommended)

SEE ATTACHED MAP

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown on Pg. 3)

Observation Hole 105 ☒ Test Pit ☐ Boring
2 " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	SILT LOAM	FRIABLE	V DK GY; DARK YELLOWISH BROWN	NONE
10–20			LT OL BRN	C FAINT
20–30	SILTY CLAY LOAM	FIRM	OLIVE	COMMON DISTINCT
30–40				
40–50				

Soil Classification		Slope	Limiting Factor	
9	D	3 +/- %	14 "	[X] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth
Profile	Condition			

Observation Hole 104 ☒ Test Pit ☐ Boring
2 " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	SILT LOAM	FRIABLE	V DK GY; LT OLIVE BROWN	NONE
10–20				C FAINT
20–30	SILTY CLAY LOAM	FIRM	OLIVE	COMMON DISTINCT
30–40				
40–50				

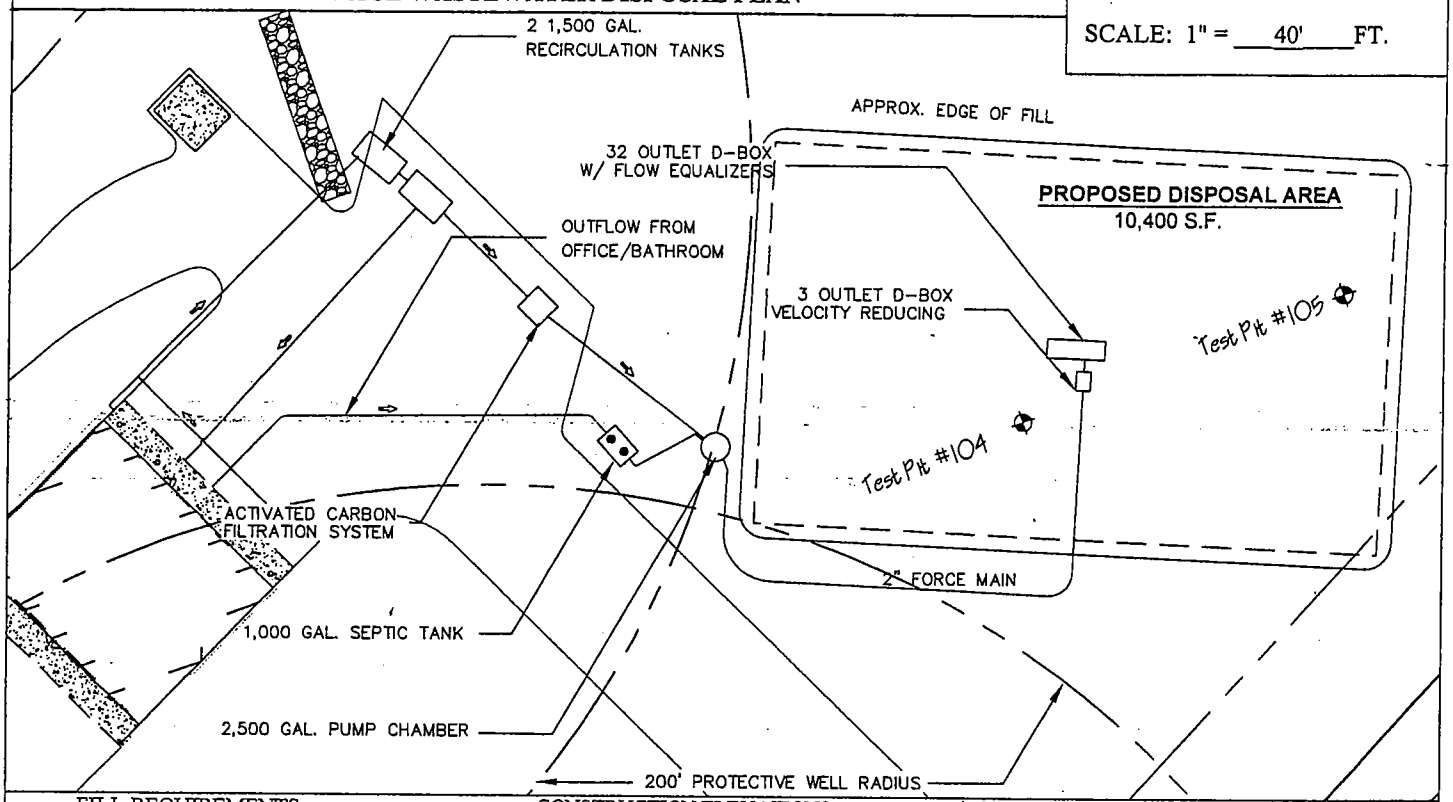
Soil Classification		Slope	Limiting Factor	
9	D	3 +/- %	13 "	[X] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth
Profile	Condition			

Site Evaluator Signature — SE # 234 — Date 8/15/05

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION	Department of Human Services Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165
Town, City, Plantation: Eliot Street, Road, Subdivision: Route 236	Owner's Name: Kenneth Couperthwait

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 40' FT.



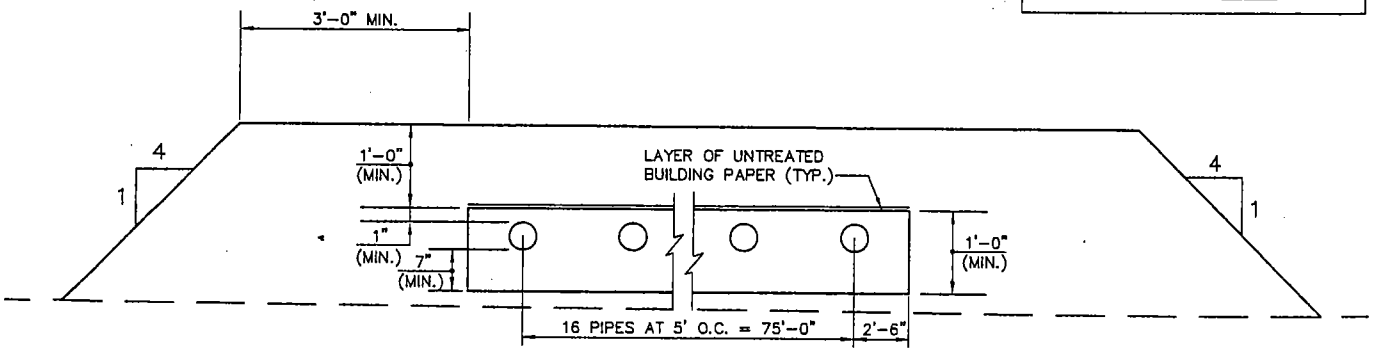
FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope)	30"	Finished Grade Elevation	+24"	Location & Description: Spike set in Oak Tree (Shown on PG.2) 95.0' EL
		Top of Distribution Pipe or Proprietary Device	+11"	
Depth of Fill (Downslope)	72"	Bottom of Disposal Area	0"	Reference Elevation: 0"

DISPOSAL AREA CROSS SECTION

Scale *NTS*

Horizontal 1" = ____ ft.

Vertical 1" = ____ ft.



Site Evaluator Signature	SE #	Date	
[signature]	234	8/15/05	Page 3 of 4 HHE-200 Rev. 8/01

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Department of Human Services Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165
Town, City, Plantation Eliot	Street, Road, Subdivision Route 236	Owner's Name Kenneth Couperthwait
SUBSURFACE WASTEWATER DISPOSAL PLAN		NTS

DESIGN CALCULATIONS :

DESIGN FLOW:
1950 GALLONS PER DAY
(100 CARS X 16 GPC)*+(350 GPD)* EMPLOYEES/OFFICESPACE
*16 GPC BASED ON ESTIMATE FROM PUR-CLEAN WATER RECOVERY SYSTEMS
*BASED ON THREE EMPLOYEES AT 15 GPD/EMP. WITH SIGNIFICANT SAFETY FACTOR

PIPE REQUIRED:
STONE AND PIPE LEACHFIELD FOR 9-D SOIL (5.00 S.F./GPD)
9750 SF REQUIRED (32 PIPES REQUIRED (L=60'))
80'x130' = 10400 SF AREA PROVIDED (> THAN REQ'D OKAY)

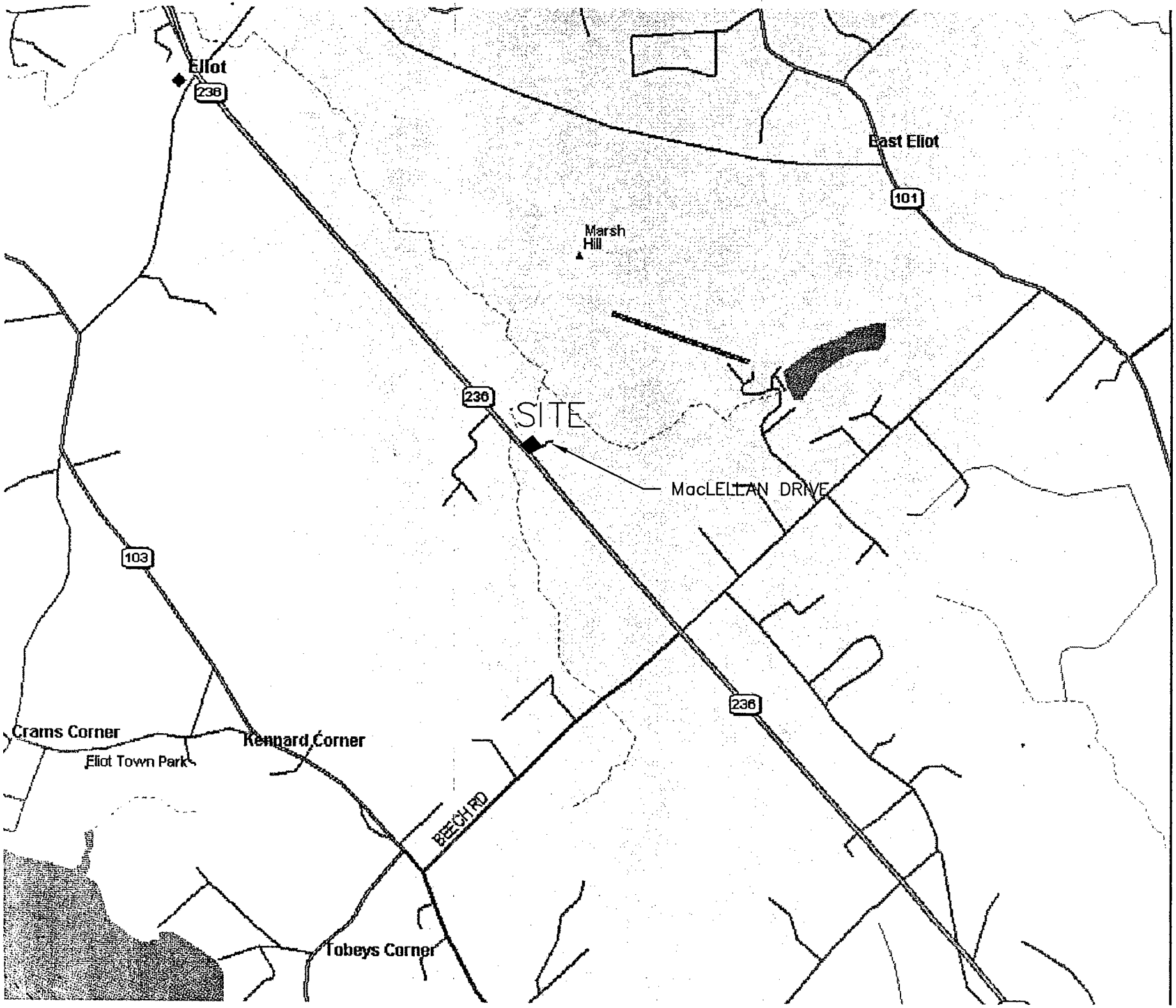
SEPTIC TANK SIZE FOR OFFICE AND BATHROOMS = (350 GAL PER DAY):
1.5 (350 GAL.) = 525 GAL. MIN.
SINGLE COMPARTMENT 1000 GAL. SEPTIC TANK PROPOSED

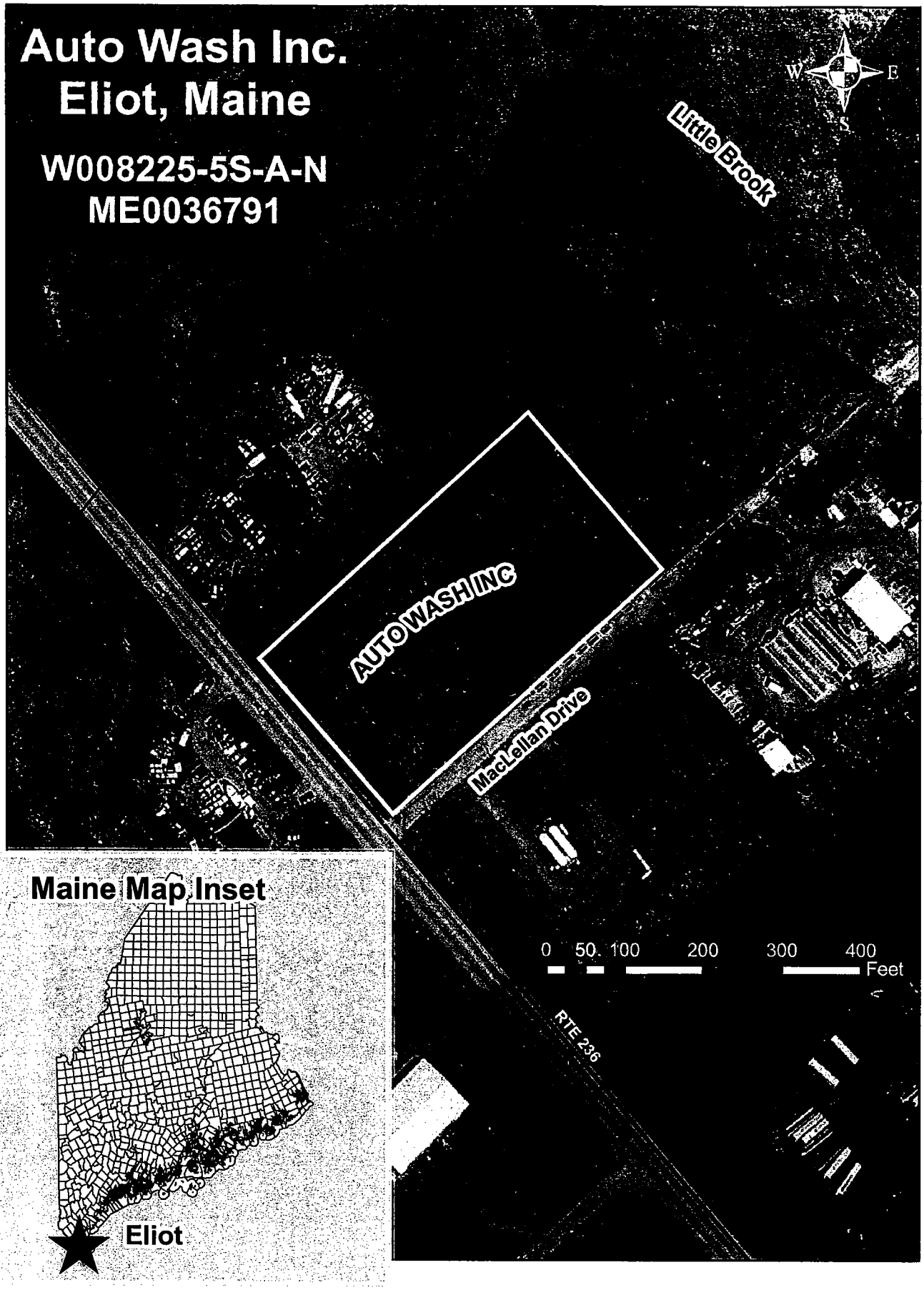
PRE-TREATMENT FOR WASH WATER
- PUR-WATER 200 SERIES WATER RECOVERY SYSTEM
- GENERAL CARBON CORP. (THE GENERAL) ACTIVATED CARBON TREATMENT SYSTEM
  - ACTIVATED CARBON SYSTEM USED TO REMOVE CONTAMINANTS FROM WASH WATER

DESIGN NOTES :

1. FOOTING DRAINS ARE NOT ANTICIPATED AND PROPOSED IN THIS DESIGN.
2. TOPSOIL TO BE REMOVED PRIOR TO PLACING FILL.
3. LOAM BARRIER TO BE CONSTRUCTED AROUND THE PERIMETER OF FILL
4. SEPTIC TANK AND D-BOX TO BE PRECAST CONCRETE SUPPLIED BY AUSTIN CONCRETE OR EQUAL.
5. SYSTEM WILL BE REBUILT IN PLACE IF FAILURE OCCURS.
6. ALL PIPES TO BE SEALED WITH POLY-LOK INSERTS OR NON-SHRINK MORTAR.
7. NO GARBAGE DISPOSAL IS PROPOSED OR PERMITTED WITHOUT REDESIGN OF THE LEACHFIELD.
8. WATER SOFTENERS OR TREATMENT SYSTEMS SHALL NOT BE BACKWASHED INTO SEPTIC SYSTEM.
9. NOTIFY THE DESIGNER IF CONDITIONS ARE FOUND CONTRARY TO THIS PLAN.
10. THE DESIGNER ASSUMES NO RESPONSIBILITY IF THE SYSTEM IS NOT INSTALLED PER DESIGN.
11. IF FILTER IS INSTALLED IN SEPTIC TANK, IT MUST BE CLEANED AND MAINTAINED REGULARLY.
12. IN THE EVENT OF FAILURE, CONTACT THE DESIGNER AND INSTALLER.
13. ACTIVATED CARBON SYSTEM TO BE SUPPLIED BY GENERAL CARBON CORP OR EQUAL.
14. ACTIVATED CARBON SYSTEM TO BE MAINTAINED PER GUIDELINES SET BY GENERAL CARBON CORP.
15. ACTIVATED CARBON SYSTEM INFLOW AND OUTFLOW TO BE MONITORED REGULARLY TO ENSURE EFFECTIVENESS OF MEDIA PER AGREEMENT, AND IN ACCORDANCE WITH MAINE DEP
16. GROUND WATER MONITORING TO BE DONE PER AGREEMENT, AND IN ACCORDANCE WITH MAINE DEP

Site Evaluator Signature	SE #	Date	
	234	8/15/05	Page 4 of 4 HHE-200 Rev. 8/01


Eliot
236
East Eliot
101
Marsh
Hill
236
SITE
MacLELLAN DRIVE
103
236
Crams Corner
Kennard Corner
Eliot Town Park
BEECH RD
Tobeys Corner


Auto Wash Inc.
Eliot, Maine
W008225-5S-A-N
ME0036791
N
W
E
S
Little Brook
AUTO WASH INC
MacLellan Drive
RTE 236
0 50 100 200 300 400
Feet
Maine Map Inset
Eliot