CONTRACT DOCUMENTS

FOR

SOUTH MAIN STREET RECONSTRUCTION: PHASE III

AUBURN, MAINE

MARCH 17, 2016

Tony Beaulieu P.E *City Engineer*
Derek Boulanger, *Facilities Manager/Purchasing Agent*

City of Auburn, Maine

"Maine's City of Opportunity"

Financial Services

March 21, 2016

Dear Bidder:

The City of Auburn is accepting written proposals for the Auburn Public Services Department's **South Main Street Reconstruction: Phase III.** The City reserves the right to accept or reject any or all proposals in whole or in part and to waive any informality the City may determine necessary. The City also reserves to itself the exclusive right to accept any proposal when it is deemed by the City to be in its best interest. The City of Auburn is governed by Title 1 M.R.S.A. § 401-410, otherwise known as the Freedom of Information Act, which considers bid specifications as public documents. In awarding any proposal, the City may consider, but not be limited to, any of the following factors: Bidder qualifications, price, experience, financial standing with the City, warranties, references, bonding, delivery date, and service of Bidder. Vendors/Contractors shall be current on all amounts due to the City of Auburn prior to the City entering into any contract agreement. All proposals must include FOB to Auburn, Maine unless otherwise specified.

Proposals will not receive consideration unless submitted in accordance with the following instructions to bidders. Please mark sealed envelopes plainly: **"South Main Street Reconstruction: Phase III – Bid #2016-028.**

Bid packages will be available beginning on Monday, March 21, 2016. Documents can be obtained from the City of Auburn's website: www.auburnmaine.gov/business/bid-notices. Questions regarding this Request for Bids should be directed to Tony Beaulieu P.E, City Engineer, at (207) 333-6601, ext. 1140. **A mandatory pre-bid will be held on Tuesday, March 29, 2016, at 2:00pm in the Community Room, Auburn City Hall.**

Please submit your proposal to the City of Auburn by 2:00 p.m. **Thursday, April 7, 2016.** Proposals must be delivered to **Derek Boulanger, Facilities Manager/Purchasing Agent, 60 Court Street, Auburn, Maine 04210** on or before the date and time appointed. No proposals will be accepted after the time and date listed above. Proposals will be opened at 2:00 p.m. on that date in Community Room, Auburn City Hall.

Sincerely,

Derek Boulanger
Facilities Manager/Purchasing Agent

60 Court Street • Suite 114 • Auburn, ME 04210
(207) 333-6600 Voice • (207) 333-6601 Automated • (207) 333-6620 Fax

CONDITIONS AND INSTRUCTIONS TO BIDDERS

1. Bidders shall use the enclosed bid form for quotations. Whenever, in bid forms, an article is defined by using a trade name or catalog number, the term "or approved equal", if not inserted, shall be implied.

2. Submit a separate unit price for each item unless otherwise specified in the bid request. Award will be made on a basis of each item, or as a group, whichever is in the best interest of the City. Prices stated are to be "delivered to destination".

3. Bid proposals must be completed in full, in ink and must be signed by firm official. Bid proposal **must be notarized** prior to bid being sealed and will be disqualified if not notarized. Bids may be withdrawn prior to the time set for the official opening

4. Bids will be opened publicly. Bidders or representatives may be present at bid opening.

5. Awards will be made to the lowest responsible bidder, considering the quality of the materials, date of delivery, cost which meets specification and is in the best interest to the City of Auburn.

6. All transportation charges, including expense for freight, transfer express, mail, etc. shall be prepaid and be at the expense of the vendor unless otherwise specified in the bid.

7. The terms and cash discounts shall be specified. Time, in connection with discount offered, will be computed from date of delivery at destination after final inspection and acceptance or from date of correct invoice, whichever is later.

8. The City is exempt from payment of Federal Excise Taxes on the articles not for resale, Federal Transportation Tax on all shipments and Maine Sales Tax and Use Taxes. Please quote less these taxes. Upon application, exemption certificate will be furnished with the Purchase Order when required.

9. No contract may be assigned without the written consent of the Purchasing Director or his designate. The contract shall not be considered valid until a purchase order has been issued to the successful bidder.

10. Please state "South Main Street Reconstruction: Phase III– Bid # 2016-028", on submitted, sealed envelope.

11. The City of Auburn reserves the right to waive any formality and technicality in bids whichever is deemed best for the interest of the City of Auburn.

12. All work must be completed from 7:00AM to 6:00PM. The completion date for this project is October 1, 2016. Liquidated damages of $500/calendar day will be assessed on uncompleted work.

GENERAL CONDITIONS

1. Equal Employment Opportunity

The City of Auburn is an Equal Opportunity Employer and shall not discriminate against an applicant for employment, and employee or a citizen because of race, color, sex, marital status, physical and/or mental handicap, religion, age, ancestry or natural origin, unless based upon a bona-fide occupation qualification. Vendors and contractor or their agents doing business with the City shall not violate the above clause or the Civil Rights Acts of 1964. Violations by vendors shall be reviewed on a case-by-case basis and may mean an automatic breach of contract or service to the City of Auburn.

2. Save Harmless

The Bidder agrees to protect and save harmless the owner from all costs, expenses or damages that may arise out of alleged infringement of patents of materials used.

3. Subcontracting

The Bidder shall not subcontract any part of the work or materials or assign any monies due it without first obtaining the written consent of the municipality. Neither party shall assign or transfer its interest in the contract without the written consent of the other party.

4. Warranty

The Bidder warrants that all work will be of good quality and free from faults and defects, and in conformance with the specifications. All work not so conforming to these standards may be considered defective. The Bidder agrees to be responsible for the acts and omissions of all of its employees and all subcontractors, their agents and employees, and all other persons performing any of the work under a contract with the Bidder.

5. Bonds, Retainage and Payments

A bid bond shall be submitted with appropriate bid forms in the amount of 5% of the total contract value. Also, payment and performance bonds will be required from the contractor who is awarded this contract. Retainage in the amount of 10% will be held from each progress payment and shall be released at the discretion of the Project Engineer. Payments shall be made by the City to the Contractor 30 days after receipt of the request for payment.

BID PROPOSAL FORM

Due: Thursday, April 7th, 2016

To: City of Auburn
Derek Boulanger, Facilities Manager/Purchasing Agent
60 Court Street
Auburn, ME 04210

The undersigned individual/firm/business guarantees this price for Thirty days (30) from the bid due date. The undersigned submits this proposal without collusion with any other person, individual, or firm or agency. The undersigned ensures the authority to act on behalf of the corporation, partnership or individual they represent; and has read and agreed to all of the terms, requests, or conditions written herein by the City of Auburn, Maine. By signing this bid form, the firm listed below hereby affirms that its bid meets the minimum specifications and standards as listed above.

Signature _____Name (print) _____

Title_____Company_____

Address_____

Telephone No._____Fax No. _____

Email Address:_____

STATE OF MAINE
_____, SS. Date: _____

Personally appeared and acknowledged the foregoing instrument to be his/her free act and deed in his/her capacity and the free act and deed of said company.

Notary Public_____

Print Name_____
Commission Expires_____

Addendum Acknowledged:
#_____Date_____
#_____Date_____
#_____Date_____

City of Auburn

Roadway and Drainage Improvements Bid Form

ITEM NO.	DESCRIPTION	UNIT	QNTY	UNIT COST	TOTAL COST
201.23	Removing Single Tree Top Only	EA	3		
201.24	Removing Stump	EA	3		
202.15	Removing Existing Manhole or Catch Basin	EA	5		
202.16	Removing Existing Storm/Sewer Pipe	LF	200		
202.20	Removing Bituminous Concrete Pavement	SY	11,300		
202.203	Pavement Butt Joints	SY	100		
203.20	Common Excavation	CY	8,000		
203.28	Test Pit	EA	13		
203.2312	Health and Safety Plan (HASP)	LS	1		
203.2333	Disposal/Treatment of Special Excavation	TON	500		
203.29	Crushed Stone (Over Depth)	CY	250		
206.07	Structural Rock Excavation - Drainage & Minor Structures	CY	250		
304.10	Aggregate Subbase Course –Type D	CY	6,000		
304.14	Aggregate Base Course –Type A	CY	1,000		
304.141	Aggregate Base Course –Type A (Sidewalks & Drives)	CY	1,000		
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size, Surface	TON	980		
403.209	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (sidewalks, drives, islands & incidentals)	TON	340		
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size, Base	TON	1600		
409.15	Bituminous Tack Coat, Applied	GAL	2,300		
534.711	3' x 4' Box Culvert	LF	100		
603.159	12" Culvert Pipe Option III	LF	652		
603.169	15" Culvert Pipe Option III	LF	90		
603.239	48" Culvert Pipe Option III	LF	88		
604.157	120" Manhole	EA	1		
604.16	Altering Catch Basin to Manhole	EA	9		
604.161	Altering Catch Basin	EA	2		
604.18	Adjusting Manhole or Catch Basin to Grade	EA	22		
604.252	Catch Basin Type A5-C	EA	16		
604.2523	120" Catch Basin Type A5-C	EA	1		
605.09	6" Underdrain Type B	LF	2,516		
605.11	12" Underdrain Type C	LF	80		

City of Auburn

Roadway and Drainage Improvements Bid Form

ITEM NO.	DESCRIPTION	UNIT	QNTY	UNIT COST	TOTAL COST
608.26	Curb Ramp Detectable Warning Field	EA	32		
609.11	Vertical Curb Type 1	LF	2,000		
609.12	Vertical Curb Type 1 – Circular	LF	1,325		
609.237	Terminal Curb Type 1 - 7 Foot	EA	50		
609.238	Terminal Curb Type 1 - 8 Foot	EA	64		
615.08	Loam, Seed & Mulch	SY	5,250		
627.733	4" White or Yellow Painted Pavement Marking Line	LF	7,250		
627.75	White or Yellow Pavement & Curb Marking	SF	2,300		
645.251	Roadside Sign and Pole	EA	1		
652.36	Work Zone Traffic Control	LS	1		
659.10	Mobilization	LS	1		
TOTAL AMOUNT OF BID WRITTEN AND IN NUMBERS BASED ON ESTIMATE OF QUANTITIES					
(Written)					

Auburn Water and Sewerage Districts

Water and Sewer Improvements Bid Form

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
203.29	Crushed Stone (Over Depth)	CY	100		
206.07	Structural Rock Excavation-Drainage & Minor Structures	CY	100		
604.151	Remove and Replace Sewer Manhole	EA	1		
824.29	Demolishing Existing Hydrant Assembly	EA	1		
824.30	Install Hydrant Assembly	EA	1		
830.01	Install 2" PVCO Water Main	LF	100		
830.02	Install 6" PVCO Water Main	LF	300		
830.03	Install 12" PVCO Water Main	LF	1300		
830.04	Install Tee	EA	8		
830.05	Install Gate Valve	EA	3		
830.06	Install Water Service – Shortside	EA	8		
830.07	Install Water Service – Longside	EA	10		
TOTAL AMOUNT OF BID WRITTEN AND IN NUMBERS BASED ON ESTIMATE OF QUANTITIES					
(Written)					

BASIS OF AWARD BID FORM SOUTH MAIN STREET ROADWAY RECONSTRUCTION PROJECT AUBURN, MAINE	
Total of Roadway and Drainage Improvements Bid Written in Numbers	$
Total of Water and Sewer Improvements Bid Written in Numbers	$
TOTAL: BASIS OF AWARD	**$**

Company Name: _____

Signed by: _____

Title: _____

Print Name: _____

Address: _____

Tel. # _____Fax # _____

Date: _____

BID BOND

KNOW ALL BY THESE PRESENTS, that we, the undersigned, _____as Principal, and _____ as Surety, are hereby held and firmly bound unto _____as OWNER in the penal sum of _____for payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____day of _____, 2016.

The Condition of the above obligation is such that whereas the principal has submitted to _____a certain BID,

attached hereto and hereby made a part hereof to enter into a contract in writing, for the _____

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID,

then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for all and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of time within which the OWNER may accept such BID; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____ (L.S)

Principal

Surety

By:_____

IMPORTANT - Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

SAMPLE AGREEMENT

THIS AGREEMENT is made this ### day of Month Year, by and between the CITY OF AUBURN, a municipal corporation existing under the laws of the State of Maine and located in the County of Androscoggin, State of Maine (hereinafter "CITY"), Company Name, Address, EIN, (hereinafter "CONTRACTOR"),

WITNESSETH:
In consideration of the mutual covenants and conditions contained herein, the CITY and the CONTRACTOR agree as follows:

SPECIFICATIONS:

1. The CONTRACTOR shall furnish all of the material and perform all of the work shown on the drawings and described in the specifications entitled: Bid # XXXXX Bid Title
which are attached hereto and made a part hereof, and the CONTRACTOR covenants that it shall do everything required by this Agreement, the Special Provisions of the Agreement, the Invitation to Bid and the Specifications in return for payment as provided herein.

COMPLETION DATE:

2. The work to be performed under this Agreement shall be commenced by Month day, year and fully completed on or before Month day, year.

CONTRACT PRICE:

3. The CITY shall pay the CONTRACTOR for the performance of the Agreement the sum of $XXX

PERFORMANCE BOND:

4. If required by the City, the CONTRACTOR shall furnish to the CITY at the time of the execution of this Agreement a performance bond and a labor and material payment bond each in the amount of $Dollar amount or N/A (whichever applies) executed by a surety company satisfactory to the CITY, guaranteeing the performance and payment by the CONTRACTOR. ❑ Yes, Required (Initials: ____) ❑ No, Waived (Initials ___)

GUARANTEE:

5.The CONTRACTOR shall guarantee his work against any defects in workmanship and materials for a period of one year from the date of the CITY’s written acceptance of the project.

PERMITS AND LICENSES:

6. Permits and licenses necessary for the prosecution of the work shall be secured and paid by the CONTRACTOR.

CITY'S RIGHT TO TERMINATE CONTRACT:

7. If the CONTRACTOR should be adjudged a bankrupt, or if it should make a general assignment for the benefit of creditors, or if a receiver should be appointed on account of its insolvency, or if it should persistently or repeatedly refuse or should fail, except in cases for which extension of time is provided, to supply enough properly skilled workmen or proper materials, or if it should fail to make prompt payment to subcontractors or for material or labor, or persistently disregard laws, and ordinances, or otherwise be guilty of a substantial violation of any provision of the Agreement, then the CITY when sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the CONTRACTOR, and his surety, seven (7) days written notice, terminate the employment of the CONTRACTOR and take possession of the premises and of all materials, tools and appliances thereon and finish the work by whatever method it may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Agreement price shall exceed the expense of the finishing the work, including compensation for additional architectural, managerial and administrative services, such excess shall be paid to the CONTRACTOR. If such expense shall exceed such unpaid balance, the CONTRACTOR shall pay the difference to the CITY.

CONTRACTOR'S LIABILITY INSURANCE:

8.The CONTRACTOR shall not commence work under this Agreement until he has obtained all insurance required under this paragraph and such insurance has been approved by the CITY, nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar insurance required of subcontractor has been so obtained and approved. It is a requirement that the CITY be named as an Additional Insured on the General Liability and Automobile Liability policies.

Commercial General Liability to include products and completed operations, and blanket contractual. The limits of liability shall be as follows:

Bodily Injury and Property Damage	$1,000,000
Personal Injury and Advertising Injury	$1,000,000
Per Project Aggregate	$1,000,000
General Aggregate	$2,000,000
Products and Completed Operations Aggregate	$2,000,000
Medical Payments	$10,000

(b) Business Automobile Liability

The CONTRACTOR shall maintain and cause all sub-contractors and lower tier contractors to maintain business automobile liability insurance covering all owned non-owned, leased, rented or hired automobiles (symbol 1). The limits of liability shall be as follows:

Bodily Injury and Property Damage	$1,000,000

Automobile physical damage coverage shall be at the option of the CONTRACTOR, all sub-contractors and lower tier contractors. The CITY shall not be liable for physical loss or damage to any owned, non-owned, leased, rented or hired automobile.

Workers' Compensation Insurance

The CONTRACTOR shall maintain and cause all sub-contractors and lower tier contractor's to maintain Workers' Compensation and Employers Liability in accordance with the laws and regulations of the State of Maine. The limits of liability provided shall be as follows:

Coverage A:	Statutory
Coverage B:	$100,000/$500,000/$100,000

Professional Liability

If the CONTRACTOR is an Architect, Engineer or Surveyor, they shall maintain a policy of insurance to pay on their behalf whatever amounts that may become legally required to pay on account of an error, omission or negligent act.

Limits of Liability shall be as follows:

$1,000,000 per occurrence and in the aggregate site specific.

It is a requirement that this policy be maintained for a period of three (3) years following completion of the project.

Certificates of Insurance of the types and in the amounts required shall be delivered to the CITY prior to the commencement of any work by the CONTRACTOR, subcontractor or lower tier contractor or any person or entity working at the direction or under control of the CONTRACTOR. The CONTRACTOR shall assume the obligation and responsibility to confirm insurance coverage for all sub-contractors or lower tier contractors who will participate in the project.

The Certificate of Insurance and the policies of insurance shall include a sixty (60) day notice to the CITY of cancellation, non-renewal or material change in coverage or form.

The CONTRACTOR and his surety shall indemnify and save harmless the CITY, his officers and employees from all suits, actions or claims of any character brought because of any injuries or damage received or sustained by any person, persons or property on account of the operations of the said CONTRACTOR; or on account of or in consequence of any neglect in safeguarding the work; or through use of unacceptable materials in construction of the work; or because of any act or omission, neglect, or misconduct of said CONTRACTOR; or because of any claims or amounts recovered from any infringements or patent trademark, or copyright; or from any claims or amounts arising or recovered under the "Workmen's Compensation Act" or of any other law, ordinance, order or decree; and so much of the money due to the said CONTRACTOR under and by virtue of his/her contract as shall be considered necessary by the CITY for such purpose, may be retained; or in case no money is due, his surety may be held until such suit or suits, action or actions, claim or claims, for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the CITY.

Waiver of Subrogation

Payment of any claim or suit including any expenses incurred in connection therewith by the CITY, or any insurance company on behalf of the CITY shall not constitute a waiver of subrogation against the CONTRACTOR, sub-contractors or any lower tier contractor in the event that such claim or suit was caused by or contributed to as a result of the negligent acts of the CONTRACTOR, any sub-contractors or lower tier contractors.

Construction Agreement

The CONTRACTOR shall and does hereby agree to indemnify, save harmless and defend the CITY from the payment of any sum or sums of money to any person whomsoever on account of claims or suits growing out of injuries to persons, including death, or damages to property, caused by the CONTRACTOR, his employees, agents or sub-contractors or in any way attributable to the performance and execution of the work herein contracted for, including (but without limiting the generality of the foregoing), all claims for service, labor performed, materials furnished, provisions and suppliers, injuries to persons or damage to property, liens, garnishments, attachments, claims, suits, costs, attorney's fees, costs of investigation and defense. It is the intention of this paragraph to hold the CONTRACTOR responsible for the payment of any and all claims, suits, or liens, of any nature character in any way attributable to or asserted against the CITY, or the CITY and the CONTRACTOR, which the City may be required to pay. In the event the liability of the CONTRACTOR shall arise by reason of the sole negligence of the CITY and/or the sole negligence of the CITY's agents, servants or employees, then and only then, the CONTRACTOR shall not be liable under the provisions of this paragraph.

DAMAGES:

9.The CONTRACTOR shall defend, indemnify and save harmless the CITY and all persons acting for or in behalf of it against all claims for injuries (including death), loss or damage, arising out of the performance out this contract.

LIENS:

10.Neither the final payment nor any part of the retained percentage shall become due until the CONTRACTOR, if required, shall deliver to the CITY a complete release of all liens arising out of the Agreement, or receipts in full in lieu thereof and, if required in either case, an affidavit that so far as it has knowledge or information the releases and receipts include all the labor and material for which a lien could be filed; but the CONTRACTOR may, if any SUB-CONTRACTOR refuses to furnish a release or receipt in full, furnish a bond satisfactory to the CITY to indemnify it against any lien. If any lien remains unsatisfied after all payment are made, the CONTRACTOR shall refund to the CITY all moneys that the latter may be compelled to pay in discharging such a lien, including all costs and a reasonable attorney's fee.

ASSIGNMENT:

11. Neither party to the Agreement shall assign the Agreement or sublet it as a whole without the written consent of the other, nor shall the CONTRACTOR assign any moneys due or to become due to it hereunder, without the previous written consent of the CITY.

SUBCONTRACTS:

12. The CONTRACTOR shall not sublet any part of this Agreement without the written permission of the CITY. The CONTRACTOR agrees that it is as fully responsible to the CITY for the acts and omissions of its SUB-CONTRACTORS and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly employed by it.

USE OF PREMISES:

13.The CONTRACTOR shall confine its apparatus, the storage of materials and operations of its workers to limits indicated by law, ordinance and permits and shall not otherwise unreasonably encumber the premises with its materials. If any part of the project is completed and ready for use, the CITY may, by written and mutual consent, without prejudice to any of its rights or the rights of the CONTRACTOR, enter in and make use of such completed parts of the project. Such use or occupancy shall in no case be construed as an acceptance of any work or materials.

CLEANING UP:

14. The CONTRACTOR shall at all times keep the premises free from accumulation of waste materials or rubbish caused by its employees or work, and at the completion of the work it shall remove all its rubbish from and about the project, and all its tools, scaffolding and surplus materials and shall leave its work "broom-clean" or its equivalent, unless more exactly specified. In case of dispute, the CITY may remove the rubbish and charge the cost to the CONTRACTOR.

PAYMENTS:

15. Unless otherwise agreed to, the CITY shall make payments on account of the Agreement as follows:

Within 30 days, as invoices are submitted for work completed to the satisfaction of the CITY.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

BY:_____ BY:_____

Witness Finance Director

BY:_____ BY:_____

Witness

SCOPE OF WORK

The following scope of work is being proposed for the South Main Street Reconstruction: Phase III Project for the City of Auburn. The scope of work is a brief overview of the expected extent of work included in this contract.

South Main Street Roadway and Drainage – Broad Street to Loring Avenue (2,100')

- Provide new drainage structures and storm drains.
- Provide 6" underdrain between existing catch basins.
- Remove pavement surface and existing road base.
- Add new gravel and HMA base and surface courses.
- Provide new granite curbing.
- Rebuild sidewalks and driveways on both sides of street.
- Loam, seed and mulch as directed.

South Main Street Water Improvements - Sixth Street to Loring Avenue (1,275')

- Install new water mains.
- Install gate valves and tees.
- Demolish existing hydrant assembly
- Install new hydrant assembly.
- Install new water services.
- Install new sewer manhole

South Main Street Sewer Improvements – Cook Street

- Remove existing sewer manhole.
- Install new sewer manhole.

SPECIAL PROVISIONS

The following Supplemental Specifications and Special Provisions shall amend the "Maine, Department of Transportation Standard Specifications, **November 2014 Edition**" including any and all applicable revisions and special provisions. In case of conflicts, these Supplemental Specifications (1) and Special Provisions (2) shall take precedence and shall govern.

(1) Supplemental Specifications - modifications, additions and deletions to the existing Standard Specifications.

(2) Special Provisions - specifications in the contract which are for additional items not covered in the Standard Specifications

F-1 Work Hours

No work shall proceed on this project prior to the hour of 7:00 AM or after 6:00 PM (prevailing time) on any working day unless the City has granted prior approval. The definition of work for this specification shall include starting or moving of equipment, machinery, or materials. Any day worked for four hours or more will be considered a full working day.

F-2 Notification of Residents

Residents shall be notified sufficiently in advance of any construction affecting the driveway and sidewalk to allow adequate time for their removal of personal vehicles. Locations of cuts for drive access affecting individual residents shall be brought to their attention.

F-3 Traffic Signs

All existing traffic signs, which are to be removed during construction, shall be dismounted and the posts removed and shall be stacked in an area approved by the Engineer. Contractor shall protect the signs from damage while in his possession and shall repair, at no additional cost to the City, any damages cause by his operations.

Stop signs are to be maintained at their original locations at all times during the progress work.

Prior to the start of any construction work, the Contractor shall prepare an acceptable inventory of all signs within the project limits which shall be used as a guide for replacement should signs be removed for construction purposes.

This work shall be considered as subsidiary obligation of the contract for which no special payment will be made.

F-4 Protection of Trees

The Contractor shall be responsible for the preservation of all trees on the project, which are not to be removed. Any trees damaged by the Contractor's operations shall be repaired as approved by tree dressing or paint in accordance with the appropriate provisions of Section 201 of Standard Specifications.

F-5 Maintenance and Protection of Traffic

The Contractor shall be responsible for the maintenance and protection of all vehicular and pedestrian traffic at all times during construction and shall erect suitable warning signs, flashing barriers or temporary lighting devices of sufficient size and number to afford protection to the traveling public in accordance with the most recent edition of "Manual on Uniform Traffic Control Devices for Streets Highways" published by the Department of Transportation of the Federal Highway Administration.

The Contractor shall be held responsible for all damage to the work due to any failure of the warning devices to properly protect the work from the traffic, pedestrians or other causes. Traffic control shall be in accordance with the City of Auburn’s Traffic Detail Policy effective April 1, 2006.

F-5A Materials

Materials shall meet the requirements specified for the various subsections of the Specifications. Equals shall be approved only prior to the bid opening.

F-6 Survey

The City of Auburn, Department of Public Services will establish, at their discretion, a benchmark location and one construction baseline. The Contractor shall be responsible for maintaining these controls during construction and providing all additional survey required, which shall be done by a competent Engineer or Surveyor.

F-7 Waste Areas

The disposal of stumps shall follow Section 201.07.

F-8 Occupational Safety and Health

The Contractor is hereby advised that all work to be furnished to the City shall be performed with equipment, methods, and use of personnel in conformance with the pertinent Occupational Safety and Health Act requirements of the State of Maine and with the regulations for construction as specified by the Department of Labor and Occupational Safety and Health Administration (OSHA) as currently amended.

F-9 Pre-Construction Conference

A conference will be held at 60 Court Street, Auburn, Maine within ten (10) days after the awarding of the contract. At this time, the contractor will be required to submit a graphically illustrated schedule and a plan showing project activities. City officials and representatives of the various utility companies involved in the project will be present at this meeting.

It is the purpose of this meeting to inform the various agencies of the proposed work schedule, and to give them the opportunity of discussing any difficulties and of offering suggestions to the Contractor concerning his proposed schedule in order that full cooperation may be reached.

F-10 Schedule of Operations

The above-mentioned schedule of operations in Section F-9 shall consist of a bar chart detailing the activities included in the contract. Although a bar chart is acceptable as a minimum, more complex and detailed schedules (i.e., flow charts, critical paths, etc.) are encouraged and will be accepted by the City. Updates will be required.

F-11 Traffic Officers

Traffic control shall be the responsibility of the Contractor and as directed. Traffic control officers will be employed by the contractor. City of Auburn police officers may be required in certain traffic situations and will be paid for by the City of Auburn.

F-12 Limitation of Operations

The Contractor shall conduct the work at all times in such a manner and in such sequence as will assure the least interference with traffic. The Contractor shall not open up work to the prejudice or detriment of work already started. The Engineer may require the Contractor to finish a section on which work is in progress before work is started on any additional sections, if finishing such section is essential to public convenience.

F-13 Questions Regarding Plans and Documents

Questions from prospective bidders relative to this Contract shall be submitted no later than five days before bid opening and directed to:

Tony Beaulieu P.E.
City Engineer
Engineering Division
Tel. 333-6601 ext. 1140

F-14 Record Drawings

The Contractor shall keep daily records of all changes in the work and records of underground infrastructure. Upon completion of the project, the Contractor shall deliver to the Engineer copies of daily records. Final payment will not be made until Engineer receives copies of daily records.

F-15 Waste Material

All waste material shall be removed from the site and the area left clean upon completion of work. Any equipment or structures damaged by the Contractor shall be repaired or replaced at no additional cost to the City.

F-16 Quality Assurance

The Contractor shall be responsible at all times for maintaining top quality assurance during performance of his work.

F-17 Bids

No bids shall be withdrawn within a period of sixty -(60)- days after the opening of the bids.

F-18 Manhole Structures

The contractor shall be responsible for removing the frame and cover of sewer manholes during construction. Steel plates shall be used to cover the existing manhole opening. Offsets shall be installed to determine location. This work shall be considered incidental to the contract. The Auburn Water & Sewer District will be responsible to adjust sewer manhole frames and covers to grade, including water shutoffs.

F-19 Aggregate Base Courses

All gravel products shall meet MDOT specifications and shall also be produced from quarry rock.

F-20 Pipe Stubs

Any pipe stubs required to connect existing pipes for Item 604.252- Catch Basin Type A5-C shall be considered incidental to the item.

F- 21 Pipe Materials

All pipe supplied on this project shall be High Density Polyethylene (HDPE) pipe unless otherwise specified.

SUPPLEMENTAL SPECIFICATIONS
SECTION 100 - GENERAL PROVISIONS

1. SCOPE

The work covered by this section includes furnishing all labor, equipment, materials, incidentals, and the performing of all operations in connection with the work encompassed by these contract documents. All work shall be subject to the terms and conditions of the contract documents.

2. STANDARD SPECIFICATIONS

The City of Auburn, Maine has adopted for this project, the "State of Maine, Department of Transportation, Standard Specifications, **November 2014 Edition**", and the Standard Details (**November 2014 Edition**) and the following Supplemental Specifications including all current additions or modifications thereof. In the case of conflict with the following Supplemental Specifications, addenda shall take precedence and shall govern.

Wherever in the Specifications and in this Contract the term "Department", "the Department of Transportation", "MDOT", or any reference to the "State of Maine, Department of Transportation" or its "Engineers" is mentioned, the intent and meaning shall be interpreted to refer to the CITY OF AUBURN, MAINE, or their authorized representative.

SUPPLEMENTAL SPECIFICATIONS
SECTION 201 - REMOVING STUMPS

The provisions of Section 201 of the Standard Specifications shall apply with the following additions and modifications:

201.01 Description

This work shall consist of removing trees and stumps identified on the Contract Drawings.

201.07 Disposal

All trees and stumps removed shall be disposed of by approved methods.

202.09 Method of Measurement

Single trees and stumps will be measured by each unit.

202.10 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 201.10.

Pay Item	Item Description	Pay Unit
201.23	Removing Single Tree Top Only	Each
201.24	Removing Stump	Each

SUPPLEMENTAL SPECIFICATIONS
SECTION 202 - REMOVING OF STRUCTURES AND OBSTRUCTIONS

The provisions of Section 202 of the Standard Specifications shall apply with the following additions and modifications:

202.01 Description

This work shall consist of the removal of the surface of the bituminous concrete pavement to the depth, width, grade and cross sections as directed by the Engineer. Removal of existing pavement shall include roadway, driveway and sidewalk pavement.

202.061 Removing Material

The equipment for removing the bituminous surface shall be a power operating planing machine or grinder capable of removing the bituminous concrete pavement to the required depth. The equipment shall be capable of accurately establishing profile grade by referencing from either the existing paving or from an independent grade control and shall have a positive means for removing excess material from the surface and for preventing accidents from flying material in compliance with subsection 107.24, Safety and Accident Prevention, of the Standard Specification. Pavement millings shall become the property of the contractor and shall be disposed of in an approved location

202.07 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 202.07. This subsection shall be amended by the addition of the following paragraphs:

Removing existing storm and sewer pipes shall be measured per linear foot.

Pavement butt joints for driveways will be considered incidental to the contract and will not require measurement.

Saw cutting pavement is incidental to the contract pay item 202.20 and shall not require measurement.

202.08 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 202.08. This subsection shall be amended by the addition of the following paragraphs:

The accepted quantity of removal of existing storm and sewer pipe shall be at the contract unit price per linear foot, which will be full compensation for removal of a pipe outside the horizontal

limits of excavation for a proposed pipe or structure by four or more feet. Removal of existing pipe within four feet of the horizontal limits of excavation for a proposed pipe will be considered incidental to that applicable pipe pay item.

Pavement butt joints for driveways will be considered incidental to the contract and will not require payment.

Pay Item	Item Description	Pay Unit
202.15	Removing Existing Manhole or Catch Basin	Each
202.16	Removing Existing Storm/Sewer Pipe	Linear Foot
202.20	Removing Bituminous Concrete Pavement	Square Yard
202.203	Pavement Butt Joint	Square Yard

SUPPLEMENTAL SPECIFICATIONS
SECTION 203 – COMMON EXCAVATION

The provisions of Section 203 of the Standard Specifications shall apply with the following additions and modifications:

203.01 Description

This item shall be used for box cutting the existing roadway base material approximately 26" deep or as indicated on the Contract Drawings. Test pits shall be used for locating existing utility elevations as indicated on the Contract Drawings.

203.18 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 203.18. This subsection shall be amended by the addition of the following paragraphs:

Test pits will be measured per each, complete in place.

Crushed Stone will be measured by the number of cubic yards measured in its original position by cross sectional elevations of the area excavated. Refer to MDOT Standard Specifications.

203.19 Basis of payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 203.19. This subsection shall be amended by the addition of the following paragraph:

The accepted quantity of test pits will be paid for at the contract unit price per each. Payment shall be full compensation for furnishing all labor, materials and equipment necessary for excavation, backfilling, surface replacement, disposal of materials, and protection of utilities

The accepted quantities of crushed stone will be paid for by the measured number of cubic yards in its original position

Pay Item	Item Description	Pay Unit
203.20	Common Excavation	Cubic Yard
203.28	Test Pit	Each
203.29	Crushed Stone (Over Depth)	Cubic Yard

SUPPLEMENTAL SPECIFICATIONS
SECTION 203 - EXCAVATION AND EMBANKMENT
(CONTAMINATED SOIL AND GROUNDWATER MANAGEMENT)

General. The work under this specification shall be performed in conformance with all the procedures and requirements described herein for the following activities: contaminated soil handling, reuse, temporary stockpiling, transportation, storage and disposal and, contaminated water handling, storage, treatment and disposal. This specification also addresses contaminated soil location, identification, and classification. The intent of this specification is to ensure that any contaminated soil and/or water encountered during construction will be managed in a manner that protects worker health and safety, public welfare and the environment.

Environmental Site Conditions. The City of Auburn has conducted a series of assessments related to the Auburn South Main Street Improvement Project. An initial Phase I Environmental Assessment for the project area was completed to obtain a general understanding of the environmental conditions along the project corridor. Data garnered from this assessment was used to design a Modified, Phase II Contamination Assessment for the project. The modified Phase II assessment was performed by the City of Auburn's consultant. The primary focus of the assessments was to evaluate the type and extent of subsurface contamination along the project corridor. The Phase I Assessment included a review of relevant Maine Department of Environmental Protection's (MaineDEP's) and Environmental Protection Agency's (EPA's) databases and field reconnaissance of the project area. During Phase II, borings were advanced along the project's length for investigative purposes. During the advancement of these borings, three areas with impacted soil were identified. A photo-ionization detector (PID) was used to test soil grab samples from select explorations for volatile organic compound (VOC) concentrations indicative of petroleum products. (See *Identified Areas Of Contamination* below). Select samples for laboratory testing were also taken to further aid in evaluating subsurface conditions. The results of these investigations are available for review from the City of Auburn.

Identified Area of Contamination. Refer to the *Summary of Limited Subsurface Investigation for South Main Street Reconstruction*, included in Appendix A, for the locations of contamination.

Identifying and Screening Contaminated Soil and Groundwater. Within the contaminated section, excavated soils will be classified by the Resident (or their representative) based on photo-ionization detector (PID) field screening measurements. Field screening with a PID shall be performed according to the MDEP SOP No. TS004, Compendium of Field Testing of Soil Samples for Gasoline and Fuel Oil dated April 20, 2011.

The excavated soils shall be classified as Group 1, Group 2 or Group 3.

> Group 1 soils shall have PID field screening measurements indicating relative concentrations of volatile organic compounds (VOCs) less than or equal to 20 parts per million (ppm) as measured in the soil headspace.

Group 2 soils shall have PID field screening measurements indicating VOC concentrations greater than 20 ppm and contain no "petroleum saturated" soils or free-phase petroleum product.

Group 3 soils shall be "petroleum saturated." Analysis to determine "petroleum saturation" shall be performed according to MDEP guidance in *Procedural Guidelines for Establishing Standards for Remediation of Oil Contaminated Soil and Ground Water in Maine* (MDEP, 1/11/95)

Handling and Disposition of Soil Materials. Within the contaminated areas, and soil material excavated during construction shall be handled as follows:

Group 1 soils are not considered contaminated. Thus, special handling and disposal are not required for Group 1 soils.

Group 2 soils shall be placed back into their excavation section of origin. The Contractor shall make every attempt to side cast any Group 2 soils next to their excavation site. Upon completion of the given constructional feature, the Group 2 soils shall be placed back into the excavation. Group 2 materials not handled in this manner shall be considered Surplus Group 2 soils. Surplus Group 2 soils must be disposed of or treated at a facility licensed by the MDEP to accept petroleum contaminated special waste. The Contractor is solely responsible for obtaining the associated permits and approvals for the disposal or treatment of the Surplus Group 2 soils from all relevant Municipal, State, and Federal agencies at no additional cost to the City of Auburn. Notification shall be given to the Resident once approval is granted for the acceptance of this material at the off site facility. No removal of Surplus Group 2 soils from the project shall occur without prior approval by the Resident. If any Surplus Group 2 soils cannot be transported to the pre-approved, properly licensed facility within 8 hours of their excavation, they must be placed in a Temporary Secure Stockpile Area somewhere within the project limits (See Temporary Secured Stockpile Area below).

Group 3 soils shall not be excavated without prior approval by the Resident. The Contractor shall arrange and undertake disposal of all Group 3 soils at a landfill or treatment facility licensed to accept petroleum contaminated special waste. The Contractor is responsible for all additional testing required by the receiving facility. Group 3 soils that cannot be disposed of within 8 hours of excavation shall be stored in a Temporary Secured Stockpile area. If the Contractor proposes other disposal or treatment options, the Contractor is solely responsible for obtaining the associated permits and approvals from all relevant Municipal, State, and Federal agencies at no additional cost to the City of Auburn.

The Resident is responsible for signing any manifests or bills of lading required to transport and dispose of contaminated soil.

Trench and Underdrain/Stormdrain Design in Contaminated Sections. In contaminated sections**,** solid, Option III, non-perforated pipe shall be used instead of perforated underdrain pipe to help

prevent the infiltration and transportation of potentially contaminated groundwater within the underdrain/stormdrain system. The Contractor shall backfill around the pipe and trenches in this section with uncontaminated material. Backfilling of the trench shall be in accordance with Section 206.03. All stones larger than 3 inches, frozen lumps, dry chunks of clay or any other objectionable matter shall be removed before backfilling.

Seepage control dikes (SCD) shall be installed roughly every 60 feet along the stormwater pipe trench

The SCDs shall consist of a mineral clay material with a liquid limit of equal to or greater than 24 and a natural moisture content of at least 20 percent. The clay should be placed in dry excavations in 6 inch maximum, thick lifts and compacted to 90% of the maximum dry unit weight as determined by AASHTO T99 (Standard Proctor). The SCDs shall be 5 feet long, be in intimate contact with the trench floor, trench walls and circumference of the pipe and extend up to the bottom of the road base. The excavated existing road base or similar material may be placed on top of the SCDs. The Contractor shall take care to ensure that no voids or uncompacted soil is left beside or beneath the Option III culvert pipe.

Secured Stockpile Area. Direct transport of Surplus Group 2 or Group 3 soils to a pre-approved management facility is recommended. However, should the Contractor temporarily store any Surplus Group 2 or Group 3 soils at the site for more than 8 hours following excavation, they must be placed into a properly constructed Temporary Secured Stockpile Area. The Temporary Secured Stockpile Area must be constructed as defined herein and must be approved by the Resident prior to its use.

Should the Contractor utilize a Temporary Secured Stockpile Area, they shall install a continuous 1-foot high compacted soil berm around the Secured Stockpile. The Secured Stockpile shall be placed on a liner of 20-mil polyethylene and securely covered with 20-mil polyethylene. The polyethylene liner and cover shall be placed over the soil berm and be installed to ensure that precipitation water drains directly to the outside of the berm perimeter while leachate from the contaminated soil is retained within the stockpile. The Secured Stockpile and soil berm shall be enclosed within a perimeter of concrete Jersey barriers or wooden barricades. The area within the Jersey barriers (or wooden barricades) shall be identified as a "restricted area" to prevent unauthorized access to the contaminated soils.

Secured Stockpile Area - Materials.

A. Polyethylene. Polyethylene used for liner in the Secured Stockpile Area shall have a minimum of 20-mil thickness and shall meet the requirements of ASTM D3020.

B. Common Borrow. Fill used in the construction of the Temporary Secured Stockpile Area soil berm shall consist of Common Borrow and meet the requirements of Section 703.18

C. Concrete Barriers or Wooden Barricades. Concrete barriers or Wooden Barricades to form the sides of the Temporary Secured Stockpile Area shall meet the requirements of Section 526 or 652.05.

Health and Safety/Right-to-Know. Contractors and subcontractors are required to notify their workers of the history of the site and contamination that may be present and to be alert for evidence of contaminated soil and groundwater. The Contractor shall notify the Resident at least three business days prior to commencing any excavation in the contaminated areas.

The Contractor shall prepare a site specific Health and Safety Plan (HASP) for its workers and subcontractors who may work in the contaminated areas of the site. A Qualified Health and Safety Professional shall complete the HASP. The Qualified Health and Safety Professional will be an expert in field implementation of the following federal regulations:

29 CFR 1910.120 or 29 CFR 1926.65	Hazardous Waste Operations and Emergency Response
29 CFR 1910.134	Respiratory Protection
29 CFR 1926.650	Subpart D - Excavations
29 CFR 1926.651	General Requirements
29 CFR 1926.652	Requirements for Protective Systems

The City of Auburn is voluntarily ameliorating the contamination**.** The OSHA requirements as defined in 29 CFR 1910.120 apply. These requirements mandate that workers and any subcontractors working in the contaminated areas shall comply with all OSHA regulations for Hazardous Waste Operations and Emergency Response including a 40 hour initial hazardous waste operations certification [OSHA 1910.120(e)], annual 8 hour refresher course within the last 12 months and medical surveillance [OSHA 1910.120(f)] within the last 12 months.

The contractor shall designate a person to provide direct on-site supervision of the work in the contaminated areas. This person shall have the training under OSHA 1910.120 (e) as above and in addition be qualified as a construction Competent Person. It is the responsibility of the competent person to make those inspections necessary to identify situations that could result in hazardous conditions (e.g., possible cave-ins, indications of failure of protective systems, hazardous atmospheres, or other hazardous conditions), and then to insure that corrective measures are taken.

Submittals. The Contractor shall submit a site specific Health and Safety Plan (HASP) to the Resident at least two weeks in advance of any excavation work on the project

Health and Safety Monitoring. Within the contaminated areas of the project, the Contractor's designated on-site person shall monitor the worker breathing zone for those constituents

specified in the Contractor's HASP. The Contractor shall provide all required health and safety monitoring equipment.

Dewatering. Groundwater may be encountered and its removal necessary to complete work within contaminated areas**.** It will be treated as "contaminated" water. The Contractor shall inform the Resident before any dewatering commences. The "contaminated" water shall be pumped into a temporary holding tank(s). The Contractor will be responsible for the procurement of any holding tank(s). Any testing, treatment and/or disposal of the stored, petroleum-contaminated water shall be undertaken by the Contractor in accordance with applicable Federal, State and local regulatory requirements.

On-Site Water Storage Tanks - Materials. If dewatering within the identified contaminated area becomes necessary the holding tanks used for temporary storage of contaminated water pumped from excavations shall be contamination free and have a minimum capacity of 2,000 gallons.

Dust Control. The Contractor shall employ dust control measures to minimize the creation of airborne dust during the construction process in potentially contaminated areas. As a minimum, standard dust control techniques shall be employed where heavy equipment and the public will be traveling. These may include techniques such as watering-down the site or spreading hygroscopic salts.

Unanticipated Contamination. If the Contractor encounters previously undiscovered contamination or potentially hazardous conditions related to contamination, the Contractor shall immediately suspend work and secure the area. The Contractor will then notify the Resident immediately. These potentially hazardous conditions include, but are not limited to, buried containers, drums, tanks, "oil saturated soils", strong odors, or the presence of petroleum sufficient to cause a sheen on the groundwater. The area of potential hazard shall be secured to minimize health risks to workers and the public and to prevent a release of contaminants into the environment. The source of any suspected contamination shall be evaluated by the Resident (or their representative). As appropriate, the Resident will notify the MDEP's Response Services Unit in Portland. The Auburn Fire Department must also be notified prior to removal of buried storage tanks and associated piping. The Contractor will evaluate the impact of the hazard on construction, amend the HASP if necessary, and with the Resident's approval, recommence work in accordance with the procedures of this Special Provision.

Method of Measurement. There will be no measurement for identification and environmental screening of contaminated soil material (this will be done by the Resident or their representative).

Measurement for the development of a Health and Safety Plan (HASP) and providing health and safety equipment and personnel shall be by lump sum.

Measurement of the off site treatment or disposal of Surplus Group 2 and all Group 3 soils will be by the ton of Special Excavation.

There will be no measurement for construction of a Temporary Secured Stockpile Area. Construction of a Temporary Secured Stockpile Area, if necessary, is considered incidental to project construction. There will be no measurement for hauling Surplus Group 2 material or Group 3 soils to the Temporary Secure Stockpile area or placement and removal of Surplus Group 2 or Group 3 soils in or out of the Temporary Secure Stockpile area. All hauling and any subsequent management/placement of contaminated soils are considered incidental to project construction.

There will be no measurement for additional laboratory testing of contaminated soil that is required by the landfill or treatment facility. Testing is incidental to the disposal of Special Excavation.

Measurement for the following items shall be according to Subsection 109:04 ("Change Order"/Force Account): any necessary contaminated water holding tank(s); and treatment or disposal of any contaminated groundwater.

Basis of Payment. There will be no payment for the identification and environmental screening of contaminated soil material (this will be done by the Resident or their representative).

Payment for the development of a Health and Safety Plan (HASP) and providing health and safety equipment and personnel shall be by the lump sum

Payment for off site disposal or treatment of contaminated Surplus Group 2 and all Group 3 soils at a MaineDEP licensed facility shall be by the ton of Special Excavation.

There will be no payment for the construction of the Temporary Secured Stockpile Area or hauling/management/placement of contaminated soils to the Temporary Secured Stockpile Area. The Temporary Secured Stockpile Area shall be considered incidental to project construction.

Payment for the following items shall be according to Subsection 109:04 ("Change Order"/Force Account): any necessary contaminated water holding tank(s); and treatment or disposal of any contaminated groundwater.

Installation of seepage control dikes shall considered incidental to the applicable pipe pay items.

Pay Item	Item Description	Pay Unit
203.2312	Health and Safety Plan (HASP)	Lump Sum
203.2333	Disposal/Treatment of Special Excavation	Ton

SUPPLEMENTAL SPECIFICATIONS
SECTION 206 – STRUCTURAL EXCAVATION

The provisions of Section 206 of the Standard Specifications shall apply with the following additions and modifications.

206.04 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 206.04.

206.05 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 206.05. This subsection shall be amended by the addition of the following paragraph:

Any drilling and blasting or drilling and slitting required for structural excavation shall be consider incidental to pay item 206.07.

Pay Item	Item Description	Pay Unit
206.07	Structural Rock Excavation-Drainage & Minor Structures	Cubic Yard

SUPPLEMENTAL SPECIFICATIONS
SECTION 304 – AGGREGATE BASE COURSE

The provisions of Section 304 of the Standard Specifications shall apply with the following additions and modifications.

304.06 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 304.06.

304.07 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 304.07.

Pay Item	Item Description	Pay Unit
304.10	Aggregate Subbase Course – Type D	Cubic Yard
304.14	Aggregate Base Course – Type A	Cubic Yard
304.141	Aggregate Base Course – Type A (Sidewalks & Drives)	Cubic Yard

SUPPLEMENTAL SPECIFICATIONS
SECTION 403 - HOT BITUMINOUS PAVEMENT

The provisions of Section 403 of the Standard Specifications shall apply with the following additions and modifications.

403.01 Description

This work shall include machine placing HMA as indicated on the Contract Drawings. Materials and their use shall conform to the requirements of all related and applicable sections of this contract. HMA shall be placed and compacted with a minimum of two lifts where the total thickness of pavement to be placed exceeds 2". The **most recently** revised special provision Section 108 using the New England Selling Price shall apply to this contract.

403.02 General

Desc. Of Course	Grad Design.	Item Number	Total Thick	No. Of Layers	Comp. Notes
		4" HMA Overlay Areas			
		Full Reconstruction Areas			
		Mainline Travelway, Shoulders, & Approach Roads			
Wearing	12.5 mm	403.208	1 ½"	1	1,4,8,20
Base	12.5 mm	403.213	2 ½"	1	1,4,8
		Sidewalks, Drives, Misc.			
Wearing	9.5 mm	403.209	2" - 3"	2/more	2,3,10,11,14

COMPLEMENTARY NOTES

1. The required PGAB for this mixture will meet a **PG 64-28** grading.
2. The incentive/disincentive provisions for density shall not apply. Rollers shall meet the requirements of this special provision. The use of an oscillating steel roller shall be required to compact all mixtures pavements placed on bridge decks.
3. The design traffic level for mix placed shall be <0.3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations**.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations**.
8. Section 106.6 Acceptance, (2) Method B. The Contractor may request a contract modification to change to testing method "A" prior to work starting on this item.
10. Section 106.6 Acceptance, (2) Method D.
11. The combined aggregate gradation required for this item shall be classified as a 9.5mm "**fine graded "** mixture, (using the Primary Control Sieve control point) as defined in 703.09.
14. The combined aggregate gradation required for this item shall be classified as a 9.5mm Thin Lift Mixture (TLM) mixture, using the Aggregate Gradation Control Points as defined in 703.09.

20. The Contractor may place the specified HMA pavement course, not to exceed 2" inch compacted depth, over the full single travel lane width, for each production day. If this option is utilized the Contractor will be required to place a matching course of HMA over the adjacent section of travel lane before the end of the following calendar day. The Contractor will also be responsible for installing additional warning signage that clearly defines the centerline elevation differential hazard, as well as additional centerline delineation such as double RPM application, or temporary painted line. The Traffic Control Plan shall be amended to include this option and the additional requirements. All signs and traffic control devices will conform to Section 719.01, and Section 652, and will be installed prior to the work, at a maximum spacing of 0.50 mile for the entire length of effected roadway section. On roadways with two-way traffic, the Contractor will be required to place the specified course over the full width of the mainline traveled way being paved prior to opening the sections to weekend or holiday traffic. If this option is utilized, all additional signing, labor, traffic control devices, or incidentals will not be paid for directly, will be considered incidental to the appropriate 652 items.

403.04 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 403.04.

403.05 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 403.05.

Pay Item		Pay Unit
403.208	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size, Surface	Ton
403.209	Hot Mix Asphalt, 9.5 mm Nominal Maximum Size (sidewalks, drives, islands & incidentals)	Ton
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size, (Base and Intermediate course)	Ton

SUPPLEMENTAL SPECIFICATIONS
SECTION 409 - BITUMINOUS TACK COAT

The provisions of Section 409 of the Standard Specifications shall apply with the following additions and modifications.

409.07 Application of Bituminous Material

The rate of application shall be 0.02 to 0.2 gallons per square yard as directed. During application, care shall be taken to assure areas outside of the work area shall not be discolored. Tack coat shall be required between all layers of Hot Mix Asphalt. **Tack coat shall also be required on all longitudinal and transverse joints.**

409.08 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 409.08.

409.09 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 409.09.

Pay Item	Item Descriptions	Pay Unit
409.15	Bituminous Tack Coat, Applied	Gallon

SUPPLEMENTAL SPECIFICATIONS
SECTION 534 – PRECAST STRUCTURAL CONCRETE

The provisions of Section 534 of the Standard Specifications shall apply with the following additions and modifications.

534.01 Description

This work shall consist of furnishing and installing precast concrete structures, including box culverts, as indicated on the plans, details and as specified herein.

534.021 Quality Assurance

Precast concrete structures shall be provided by a manufacturer with no less than 5 years of experience in the production of precast concrete structures.

Precast culverts shall conform to the requirements of ASTM Specification C 1433, "Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers."

534.031 Submittals

Contractor shall submit detailed fabrication and installation shop drawings of all precast structural concrete units to the Resident for review and approval. Drawings shall include, but not limited to, plans, elevations, dimensions, shapes, cross sections, openings, extent and location of each finish, connections, support conditions, types of reinforcement, and all design loads.

534.04 Design Requirements

The internal clear dimensions of the box culvert be 4-feet wide and 3-feet high.

534.21 Method of Measurement

Precast concrete box culvert satisfactorily placed and accepted will be measured per linear foot.

534.22 Basis of Payment

This subsection shall be amended by the addition of the following paragraph:

The accepted quantities of box culvert will be paid for at the contract unit price per linear foot, complete in place. Excavation for box culvert, including excavation below the culvert, trench and for bedding and backfilling will be considered incidental to the culvert item.

Pay Item	Item Description	Pay Unit
534.711	3’ x 4’ Box Culvert	Linear Foot

SUPPLEMENTAL SPECIFICATIONS
SECTION 603 - PIPE CULVERTS AND STORM DRAINS

The provisions of Section 603 of the Standard Specifications shall apply with the following additions and modifications.

603.031 General

The Contractor shall furnish the following type of pipe under Option 3: High Density Polyethylene Pipe

603.11 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 603.11.

603.12 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 603.12.

Pay Item	Item Description	Pay Unit
603.159	12” Culvert Pipe Option III	Linear Foot
603.169	15” Culvert Pipe Option III	Linear Foot
603.239	48” Culvert Pipe Option III	Linear Foot

SUPPLEMENTAL SPECIFICATIONS
SECTION 604 – CATCH BASINS

The provisions of Section 604 of the Standard Specifications shall apply with the following additions and modifications.

604.02 Materials

Sewer manhole will be furnished by the Auburn Water and Sewerage Districts.

604.05 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 604.05. This subsection shall be amended by the addition of the following paragraph:

Removal and replacement of sewer manhole shall be measured per each, complete in place.

604.06 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 604.06. This subsection shall be amended by the addition of the following paragraph:

The accepted quantities of sewer manhole removal and replacement will be paid for at the contract unit price each. Payment shall constitute full compensation for; installing precast manhole furnished by the Auburn Water and Sewerage Districts; excavation; furnishing and placing backfill and other necessary materials; all labor, equipment, tools and any other incidentals necessary to complete the work.

Pay Item	Item Description	Pay Unit
604.151	Remove and Replace Sewer Manhole	Each
604.157	120” Manhole	Each
604.16	Altering Catch Basin to Manhole	Each
604.161	Altering Catch Basin	Each
604.18	Adjusting Manhole or Catch Basin to Grade	Each
604.252	Catch Basin Type A5-C	Each
604.2523	120” Catch Basin Type A5-C	Each

SUPPLEMENTAL SPECIFICATIONS
SECTION 605 - UNDERDRAINS

The provisions of Section 605 of the Standard Specifications shall apply with the following additions and modifications.

605.02 Materials

All pipe supplied on this project shall be High Density Polyethylene (HDPE) pipe unless otherwise specified.

605.07 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 605.07.

605.07 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 605.07.

Pay Item	Item Description	Pay Unit
605.09	6” Underdrain Type B	Linear Foot
605.11	12” Underdrain Type C	Linear Foot

SUPPLEMENTAL SPECIFICATIONS
SECTION 608 – SIDEWALKS

The provisions of Section 608 of the Standard Specifications shall apply with the following additions and modifications.

608.01 Description

This item shall consist of constructing the concrete portion of the sidewalk ramp at an intersecting street. The bid price shall include all necessary work to install concrete (precast acceptable) and truncated domes. Work shall follow Section 608 of MDOT Standard Details, November 2014 edition and current ADA specifications.

608.05 Method of Measurement

Detectable warning fields properly placed and accepted shall be measured for payment by the square foot. Measurement shall include actual plate area, not surrounding concrete.

608.06 Basis of Payment

This subsection shall be amended by the addition of the following paragraph:

The accepted quantities of curb ramp detectable warning field will be paid for at the Contract Unit price per square foot for all labor, materials, and equipment required for the installation and shall include concrete and cast iron truncated dome.

Pay Item	Item Description	Pay Unit
608.26	Curb Ramp Detectable Warning Field	Square Foot

SUPPLEMENTAL SPECIFICATIONS
SECTION 609 – CURB

The provisions of Section 609 of the Standard Specifications shall apply with the following additions and modifications.

609.02 Materials

Canadian sourced granite curbing (Caledonia Type), which contains pink quartz, shall not be used on the project. All granite curbing shall be predominately gray in color.

Except as provided below, the materials used shall meet the requirements specified in Section 700 –Materials:

Portland Cement and Portland Pozzolan Cement	701.01
Water	701.02
Fine Aggregate for Concrete	703.01
Coarse Aggregate for Concrete	703.02

A mix design for the Portland Cement Concrete shall be submitted to the Resident, with a minimum designed compressive strength of 2,900 psi for the concrete used for the concrete base for curb prior to any placement.

609.03 General – Concrete Base Fill

a. Preparation of Base: Prior to placing concrete base, the area being filled shall be thoroughly cleaned of all foreign and objectionable material. The Contractor shall not place the concrete base fill on or within a frozen base material.

b. Placing: Concrete fill shall be placed at to the pay limits shown on the plans, or as directed by the Resident. Forms may be omitted at the Contractor's option. Vibration of concrete will not be required.

c. Protection: Concrete base fill must be adequately protected by traffic control devices as necessary after placement.

d. The concrete shall be allowed to cure for at least 72 hours.

e. During cold weather conditions, when temperatures drop below a temperature of 36°F (2.2°C) after placement, concrete base fill shall be protected by concrete blankets or a combination of plastic sheeting and straw.

f. Acceptance: Concrete base fill for curb shall be accepted in place by visual inspection. All rejected concrete fill shall be removed and replaced at the Contractor's expense.

609.09 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 605.09.

609.10 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 609.10.

Pay Item	Item Description	Pay Unit
609.11	Vertical Curb, Type 1	Linear Foot
609.12	Vertical Curb, Type 1 – Circular	Linear Foot
609.237	Terminal Curb Type 1 – 7 Foot	Each
609.238	Terminal Curb Type 1 – 8 Foot	Each

SUPPLEMENTAL SPECIFICATIONS
SECTION 615 – LOAM, SEED & MULCH

The provisions of Section 615 of the Standard Specifications shall apply with the following additions and modifications

615.01 Description

This work shall consist of loaming and seeding esplanades and areas adjacent to existing lawns or as required. Loam and its applications shall conform to the requirements of Section 615 of the Standard Specifications. Loam shall have a finished depth of four (4") inches and shall be screened through a one (1") inch square mesh screen**. Loam areas shall be rolled (compacted) prior to placement of seed and mulch.**

Seeding shall be Method Number 1 and shall conform to the requirements of Section 618 of the Standard Specifications. The Contractor shall be required to continually seed area of loam and seed until a satisfactory growth of grass is established. If so required, all areas to be loamed and seeded shall be mulched with an approved wood cellulose fiber compatible with recommended hydro-seeding practices. This mulch shall be applied simultaneously with the seed and shall be of sufficient quantity to protect the seed and hold moisture in to insure a satisfactory growth of grass.

The specifications for the wood cellulose fiber proposed to be used shall be presented to the Engineer for acceptance at least ten (10) days (working days) prior to the application thereof.

The Contractor shall also be responsible for mowing any and all areas loamed and seeded. The mowings will be required if deemed necessary to insure and maintain a satisfactory growth of grass and shall not exceed two mowings.

615.02 Materials
After a sample of loam has been submitted to the Engineer, he may require that a sample be submitted to a testing agency to determine its organic content, characteristics, and potential use as loam suited to the site.

615.07 Method of Measurement
This subsection shall be amended by the addition of the following paragraph:

Loam, seed and mulch will be measured per square yard, complete in place.

615.08 Basis of Payment
This subsection shall be amended by the addition of the following paragraph:

The accepted quantity of loam, seed and mulch will be paid for at the contract unit price per square yard. This price shall include the cost of excavation and all labor, materials, and equipment necessary to satisfactorily complete the work. All costs for watering, furnishing labor

and equipment for mowing will not be paid for separately, but shall be considered as incidental to this pay item.

Pay Item	Item Description	Pay Unit
615.08	Loam, Seed & Mulch	Square Yard

SUPPLEMENTAL SPECIFICATIONS
SECTION 627 – PAVEMENT MARKINGS

The provisions of Section 627 of the Standard Specifications shall apply with the following additions or modifications:

627.09 Method of Measurement

Measurement shall be in accordance with MaineDOT Standard Specifications Subsection 627.09.

627.10 Basis of Payment

The Basis of Payment shall be in accordance with MaineDOT Standard Specifications Subsection 627.10.

Pay Item	Item Description	Pay Unit
627.733	4” White or Yellow Painted Pavement Marking Line	Lump Sum
627.75	White or Yellow Pavement & Curb Marking Line	Square Foot

SUPPLEMENTAL SPECIFICATIONS
SECTION 645 – HIGHWAY SIGNING

The provisions of Section 645 of the Standard Specifications shall apply with the following additions and modifications.

645.01 Description

This work shall include demounting and reinstalling mailboxes, road signs, regulatory, parking, warning, confirmation, street name, and other miscellaneous signs as shown on the plans. The work shall also include providing new roadside signs with poles where indicated on the contract drawings.

645.02 General

Roadside sign shall be as follows:

Sign Type: Stop

Sign Designation: R1-1 (MUTCD)

Size: 30” by 30”

645.08 Method of Measurement
This subsection shall be amended by the addition of the following paragraph:

New signs with poles will be measured per each, complete in place.

645.09 Basis of Payment
This subsection shall be amended by the addition of the following paragraph:

The accepted quantities of new signs with poles will be paid for at the contract unit price per each. Demolition of existing signs and poles shall be consider incidental.

Demounting, stockpiling, protecting and reinstalling existing signs and poles will be consider incidental to the contract.

Pay Item	Item Description	Pay Unit
645.251	Roadside Sign and Pole	Each

SUPPLEMENTAL SPECIFICATIONS
SECTION 652 – MAINTENANCE OF TRAFFIC

The provisions of Section 652 of the Standard Specifications shall apply with the following additions and modifications.

652.3.6 Traffic Control

The Contractor shall maintain access to all drives on South Main Street during construction. Two-way traffic flow shall be required on all streets during non-working hours.

The Contractor must submit a written Traffic Control Plan before the Preconstruction Meeting to the City Engineer for approval.

652.7 Method of Measurement
This subsection shall be amended by the addition of the following paragraph:

Work Zone Traffic Control shall be measured as a percentage of work completed to date relative to total work as shown on Contract Plans.

652.8 Basis of Payment
This subsection shall be amended by the addition of the following paragraph:

Preparation of traffic control plans, constructions signage, barrels, cones, barriers, maintenance of traffic control devices, flaggers and other necessary incidentals to maintain traffic in accordance with the specifications and the MUTCD shall be paid for Lump Sum under item 652.39 Work Zone Traffic Control.

Pay Item	Item Description	Pay Unit
652.36	Work Zone Traffic Control	Lump Sum

SUPPLEMENTAL SPECIFICATIONS
SECTION 659 – MOBILIZATION

The provisions of Section 659 of the Standard Specifications shall apply with the following additions and modifications.

659.01 Description

This item shall consist of preparatory work and operations including, but not limited to those necessary to the movement of personnel, equipment, supplies and incidentals to the project site; and for all other work and operations which must be performed or costs incurred prior to beginning work on the various items on the project site.

659.02 Basis of Payment

Partial payments will be made in accordance with Section 108.2.3 Mobilization of the Standard Specifications.

Pay Item	Item Description	Pay Unit
659.10	Mobilization	Lump Sum

SUPPLEMENTAL SPECIFICATIONS
SECTION 824 - FIRE HYDRANTS

The following items shall be considered additions to the Standard Specifications under Section 824.

824.01 Description
This work shall consist of the following:

- Demolishing existing hydrant assembly; and
- Installing new hydrant assembly including installation and connection to water main.

The Contractor shall coordinate and attend a Pre-Construction meeting with the Auburn Water and Sewerage District, and provide all necessary notifications to the Water District and the City during construction.

824.02 Materials
Hydrant assembly, including hydrant, piping, fittings, and valve boxes will be furnished by the Auburn Water and Sewerage Districts.

Backfill and bedding materials shall be provided by the Contractor and shall be considered incidental to the applicable pay item.

824.03 Method of Measurement
Hydrant assembly shall be measured by each unit demolished or installed, complete in place.

824.04 Basis of Payment
The accepted quantities of hydrant assembly demolition shall be paid for at the contract unit price each complete in place. The amount bid shall be full compensation for furnishing all labor, equipment, tools, adaptors, and materials necessary to satisfactorily remove and properly dispose of existing hydrant assembly including, but not limited to the hydrant, fittings, and standpipe. Trench excavation, backfill material, and all other effort necessary to satisfactorily complete the work shall be included.

The accepted quantities of hydrant assembly installation shall be paid for at the contract unit price each complete in place. Payment shall constitute full compensation for; installing hydrant assembly materials furnished by the Auburn Water and Sewerage Districts; excavation, shoring and bracing, dewatering; furnishing and placing backfill and other necessary materials; testing; and all labor, equipment, tools and any other incidentals necessary to complete the work.

Pay Item	Item Description	Pay Unit
824.29	Demolishing Existing Hydrant Assembly	Each
824.30	Install Hydrant Assembly	Each

SUPPLEMENTAL SPECIFICATIONS
SECTION 830 – WATER MAIN SERVICES

The following items shall be considered additions to the Standard Specifications under Section 830.

830.01 Description
This work shall consist of the following:

- Replacing water mains and service lines as indicated on the contract plans.

All connections shall be made in conformance with the Maine State Plumbing Code. All new service lines shall match the size of the existing lines unless other specifically directed by the Auburn Water and Sewerage Districts. The Contractor shall install locating/warning tape over the water service as required by City ordinance. The Contractor shall provide all necessary labor, equipment, tools, and materials necessary to complete the water service replacements as directed by the Auburn Water and Sewerage Districts.

The Contractor shall coordinate and attend a Pre-Construction meeting with the Auburn Water and Sewer Districts, and provide all necessary notifications to the Water District and the City during construction.

830.02 Materials
All water main and services piping, fitting, tracer wire, bends, tees, valves, curb stops, and service boxes materials will be furnished by the Auburn Water and Sewerage Districts. Water mains will be Bionax PVCO Pressure Pipe and a specification for the material is provided in Appendix B.

Backfill and bedding materials shall be provided by the Contractor and shall be considered incidental to the applicable pay items.

830.03 Method of Measurement:
PVCO water mains shall be measured per linear foot along the centerline of the pipe, complete in place.

Tees and gate valves shall be measured by each unit installed, complete in place.

Water services shall be measured by each unit installed, complete in place.

830.04 Basis of Payment
The accepted quantities of PVCO water mains installation shall be paid for at the contract unit price per linear foot, complete in place. Payment shall constitute full compensation for; laying and jointing of piping and appurtenances furnished by the Auburn Water and Sewerage Districts; excavation, shoring and bracing, dewatering; removal and disposal of existing piping and appurtenances; furnishing and placing bedding, backfilling; installing tracer wire; and all labor, equipment, tools and any other incidentals necessary to complete the work.

The accepted quantities of tees and gates valves installation shall be paid for at the contract unit price per each complete in place. Payment shall constitute full compensation for; installation of tees and gate valves furnished by the Auburn Water and Sewerage Districts; excavation, shoring and bracing, dewatering; removal and disposal of existing piping and appurtenances; furnishing and placing bedding, backfilling; and all labor, equipment, tools and any other incidentals necessary to complete the work.

The accepted quantities of water services installation shall be paid for at the contract unit price per each complete in place. Payment shall constitute full compensation for; installation of piping, service boxes and curb stops furnished by the Auburn Water and Sewerage Districts; excavation, shoring and bracing, dewatering; removal and disposal of existing piping and appurtenances; connection to existing service, furnishing and placing bedding, backfilling; and all labor, equipment, tools and any other incidentals necessary to complete the work.

The adjustment of new curb stops to grade shall be considered incidental to the contract and shall not require payment. Adjustment of existing curb stops to remain shall be completed by the Auburn Water and Sewerage Districts.

Pay Item	Item Description	Pay Unit
830.01	Install 2” PVCO Water Main	Linear Foot
830.02	Install 6” PVCO Water Main	Linear Foot
830.03	Install 12” PVCO Water Main	Linear Foot
830.04	Install Tee	Each
830.05	Install Gate Valve	Each
830.06	Install Water Service – Shortside	Each
830.07	Install Water Service – Longside	Each

APPENDIX A

Summary of Limited Subsurface Investigation for South Main Street Reconstruction

Prepared by Woodard & Curran

APPENDIX A

Summary of Limited Subsurface Investigation for South Main Street Reconstruction

Prepared by Woodard & Curran

COMMITMENT & INTEGRITY
DRIVE RESULTS

41 Hutchins Drive
Portland, Maine 04102
www.woodardcurran.com

T 800.426.4262
T 207.774.2112
F 207.774.6635

MEMORANDUM TO FILE

TO: Barry Sheff
FROM: Karl Kasper and Karen Lambek
DATE: April 19, 2012
RE: Summary of Limited Subsurface Investigation for South Main Street Reconstruction Project (PIN 014787.00)

Woodard & Curran (W&C) conducted a limited subsurface investigation along South Main Street on January 25 and 26, 2012.

Project Goals. The project goals for this subsurface investigation include the following:

- Confirm and quantify the presence of contaminants within the study area;
- Develop volume estimates of contaminated soil for soil management and disposal;
- Develop a Soil Management Plan, which will address worker safety as it relates to the excavation and disposal of contaminated soil that may be encountered during the reconstruction project; and
- Develop the basis of information for Maine Department of Transportation (MDOT) to prepare Environmental Special Provision.

Subsurface Investigation. On January 25 and 26, 2012, a total of 20 Geoprobe® borings were completed by Environmental Projects, Inc. (EPI) to assess the potential presence of contamination. Locations were selected based on results of our file review; properties of interest were identified based on past or current property use, spill reports, underground storage tank (UST) removals, and locations with naphthalene odors encountered during the geotechnical investigation conducted for W&C by Summit Geoengineering Services in May 2011.

Borings were completed to a maximum depth of 4 feet (6 feet at two locations of storm drain installation) below ground surface (bgs). One soil sample was collected per location generally between 0 and 2 ft bgs; the depth selected for sampling was based on odors encountered or where photoionization detector (PID) readings were highest. The sample was screened with a PID for gasoline contaminants and an oleophilic dye shake test was performed at each location to determine the presence of fuel oil in subsurface soil. Soil that did not show visual or olfactory signs of contamination, had no to low PID levels, and had negative oleophilic dye shake test results were not submitted for analysis. Samples that indicated contamination were submitted to Katahdin Analytical Laboratory for analysis of hazardous waste parameters required to characterize the contaminated material for off-site disposal (Extractable Petroleum Hydrocarbons [EPH] and Volatile Petroleum Hydrocarbons [VPH]), volatile organic compounds [VOCs], and total lead).

Results. Seven samples were <u>not</u> submitted for laboratory analysis for the previously stated reasons; the rationale for sampling at each location is noted:

- SMS-1 (American Legion Hall; underground storage tank [UST] removal)
- SMS-5 (Sixth Street Congregational Church; UST removal)
- SMS-8 (Fire Station – Engine 2; UST removal)
- SMS-9 (Residence; UST removal)
- SMS-12 (Poisson & Sons Citgo; spill report, UST removals, current use as a gas station)
- SMS-13 (Poisson & Sons Citgo; spill report, UST removals, current use as a gas station)
- SMS-20 (Multi-unit residence; spill report, UST removals, former service station)

Of the 13 samples submitted for analysis (see table on following page), three samples (SMS-15, SMS-18, and SMS-19) did not contain concentrations in exceedance of Maine Remedial Action Guidelines (RAGs). These three samples were submitted for laboratory analysis based on elevated PID readings; naphthalene odors were not encountered at these locations. Ten samples had concentrations of at least one constituent in exceedance of Maine RAGs. The table below summarizes the Maine RAG exceedances. Polycyclic aromatic hydrocarbon (PAH) compounds (2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene) and naphthalene exceeded the RAGs for the 'Excavation or Construction Worker' scenario. In general, PAH compounds and naphthalene exceeded RAGs at locations where naphthalene odors were encountered.

The RAGs for 'Residential' exposure were also evaluated to determine acceptable disposal practices, and whether excavated soil could be utilized off-site in residential applications. The following compounds exceeded the 'Residential' RAGs: naphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene, C11-C22 aromatics, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene.

The following table summarizes the RAG exceedances that were encountered during the subsurface investigation by boring location. The locations are presented on the attached figures.

Boring Location	Station #	Figure # (attached)	Sample Depth (in.)	Compounds Exceeding 'Excavation or Construction Worker' RAG			Compounds Exceeding 'Residential' RAG		
				EPH	VPH*	VOC*	EPH	VPH*	VOC*
SMS-2	5+81	1	6-8	X	X		X	X	
SMS-3	6+82	1	5-10	X	X	X	X	X	
SMS-4	9+82	1	5-8		X	X	X		
SMS-6	12+22	2	5-7		X	X			X
SMS-7	14+96	2	8-12	X	X	X	X	X	X
SMS-10	36+90	3	10-12	X			X		
SMS-11	47+71	4	12	X			X		
SMS-14	49+54	4	16				X		
SMS-15	52+77	4	26-27						
SMS-16	54+93	5	12	X	X		X		
SMS-17	60+06	6	14	X			X		
SMS-18	60+76	6	18						
SMS-19	61+28	6	22						

* Naphthalene only

As shown on the above table and summarized in the text above, EPH compounds (PAHs) were detected above Maine RAGs. In addition, naphthalene (VOC, EPH, and VPH) exceeded Maine RAGs. Total lead concentrations were not detected above Maine RAGs. The attached figures show these exceedances spatially, and include the individual PAH compounds that were detected above Maine RAGs for the Excavation or Construction Worker. A summary of the results (exceedances only) is also attached, along with a full data package provided by Katahdin Analytical Laboratory.

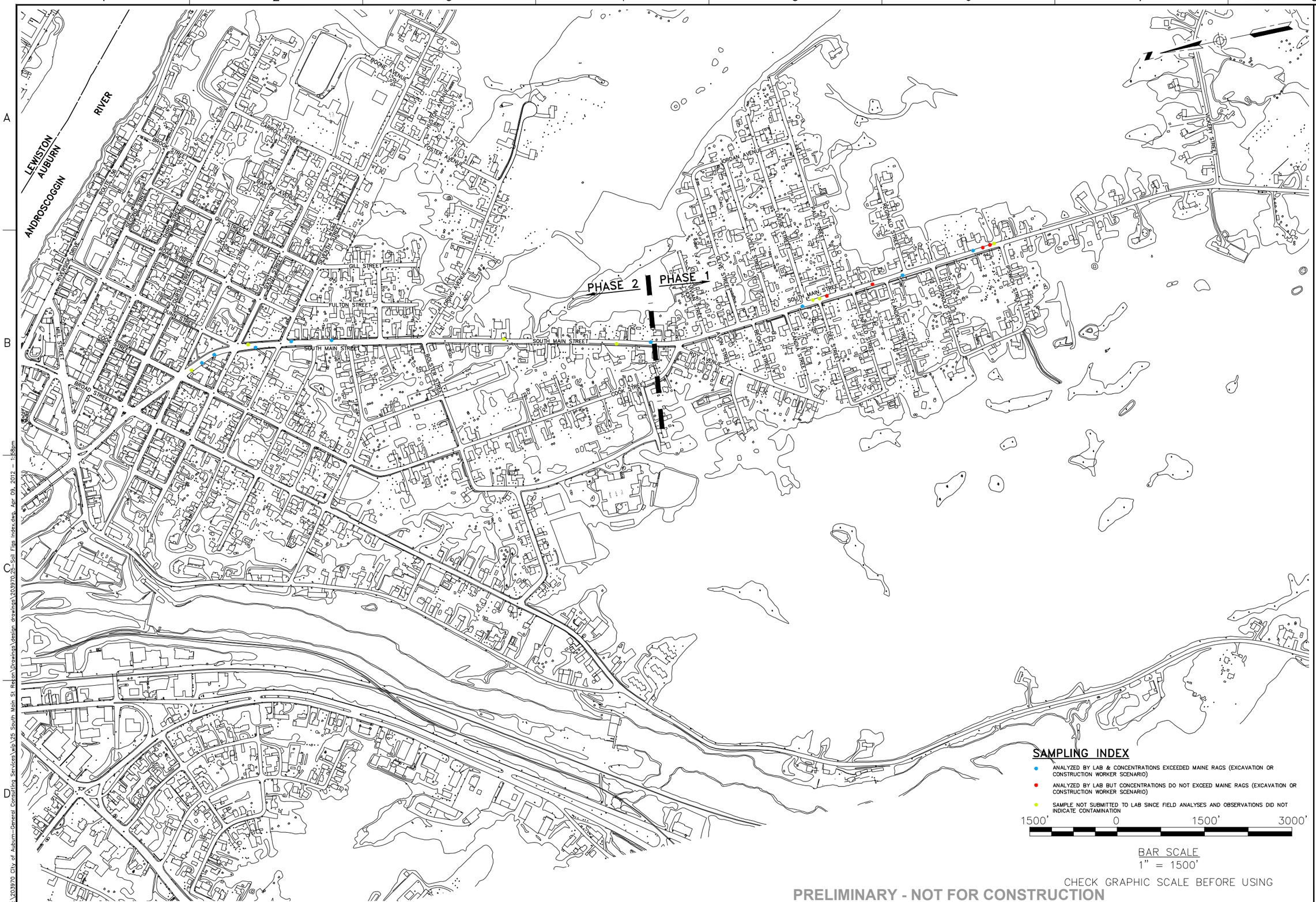
According to the guidance entitled 'Maine Remedial Action Guidelines for Soil Contaminated with Hazardous Substances' (January 13, 2010), the RAGs for PAHs are low relative to background concentrations often found in Maine. Elevated background PAHs may be due to runoff or deposition from heavily traveled roadways, degraded asphalt, or deposition of Polycyclic Organic Matter (POM) from most combustion sources, particularly residential or industrial wood combustion. PAHs are also common site-

related contaminants, particularly at sites where petroleum, coal, coal ash, or wood ash were spilled or disposed. It is anticipated that PAHs will be encountered along South Main Street during reconstruction activities, and not necessarily limited to the areas investigated by W&C during the subsurface investigation.

Recommendations. W&C recommends meeting with the City of Auburn, MDOT, and Maine Department of Environmental Protection to develop Special Provision for the project that will outline worker safety and field screening and stockpiling requirements for excavated soils. In addition, we recommend discussing any restrictions to off-site reuse or disposal of excavated soils, and the potential of entering the site into the State's Voluntary Response Action Program (VRAP).

No additional sampling is recommended to further characterize or quantify the magnitude or extent of contamination along Riverside Drive; W&C has collected sufficient data to prepare the Soil Management Plan.

11X17 SHEET
1:2



SAMPLING INDEX

- ANALYZED BY LAB & CONCENTRATIONS EXCEEDED MAINE RAGS (EXCAVATION OR CONSTRUCTION WORKER SCENARIO)
- ANALYZED BY LAB BUT CONCENTRATIONS DO NOT EXCEED MAINE RAGS (EXCAVATION OR CONSTRUCTION WORKER SCENARIO)
- SAMPLE NOT SUBMITTED TO LAB SINCE FIELD ANALYSES AND OBSERVATIONS DID NOT INDICATE CONTAMINATION

1500' 0 1500' 3000'

BAR SCALE
1" = 1500'

CHECK GRAPHIC SCALE BEFORE USING

PRELIMINARY - NOT FOR CONSTRUCTION

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DRAWN BY: BCM
203970.25-SOIL INDEX.DWG

SOIL SAMPLING INDEX

CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=1500'
SHEET: 1 OF 7

INDEX

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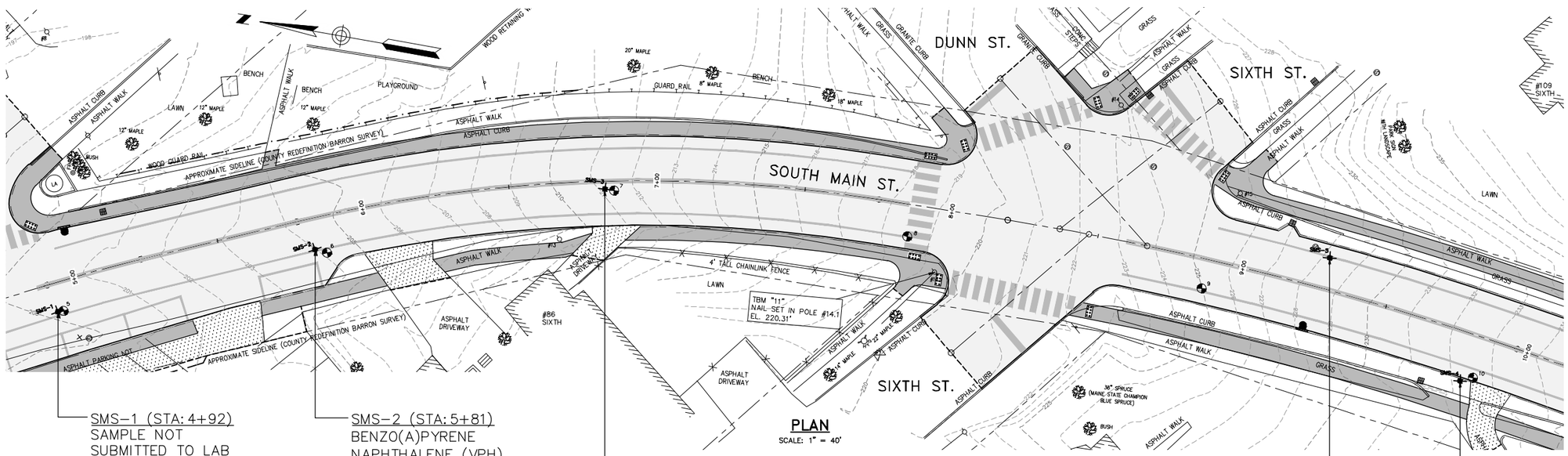

PLAN
SCALE: 1" = 40'

SMS-1 (STA: 4+92)
SAMPLE NOT SUBMITTED TO LAB BASED ON FIELD ANALYSIS/ OBSERVATIONS

SMS-2 (STA: 5+81)
BENZO(A)PYRENE
NAPHTHALENE (VPH)

SMS-3 (STA: 6+82)
2-METHYLNAPHTHALENE
BENZO(A)PYRENE
NAPHTHALENE (VOC)
NAPHTHALENE (EPH)
NAPHTHALENE (VPH)

SMS-5 (STA: 9+27)
SAMPLE NOT SUBMITTED TO LAB BASED ON FIELD ANALYSIS/ OBSERVATIONS

SMS-4 (STA: 9+82)
NAPHTHALENE (VOC)
NAPHTHALENE (VPH)

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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REV	DESCRIPTION	DATE

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CHECKED BY: KML
203970.25-SOIL FIGS.DWG

FIGURE 1
SOIL SAMPLING RESULTS

CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE II

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 2 OF 7

Fig. 1

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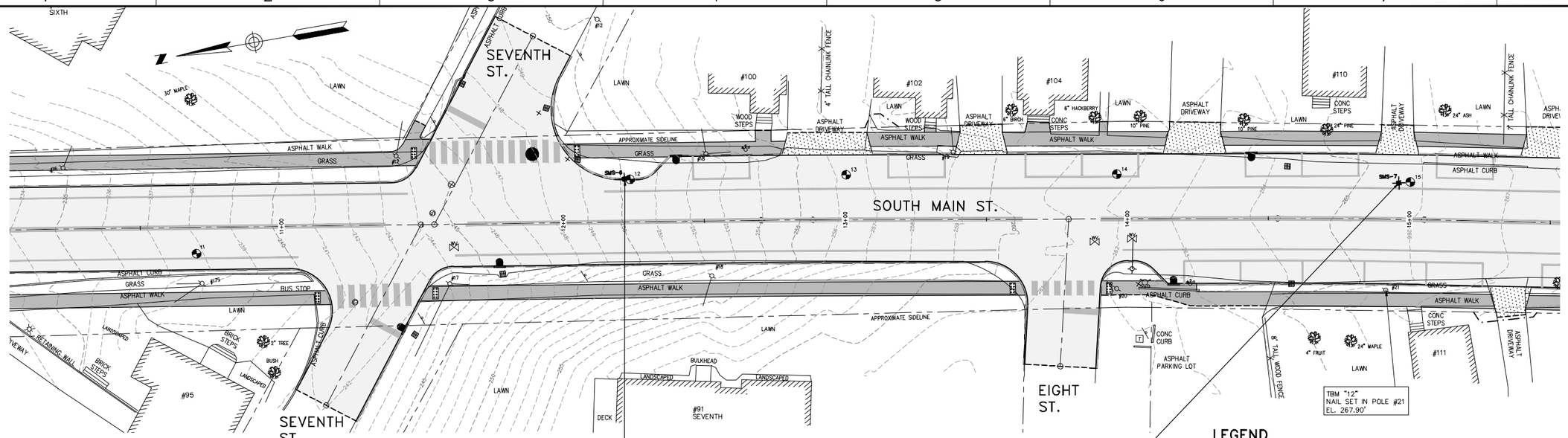


PLAN

SCALE: 1" = 40'

SMS-6 (STA:12+22)
NAPHTHALENE (VOC)
NAPHTHALENE (VPH)

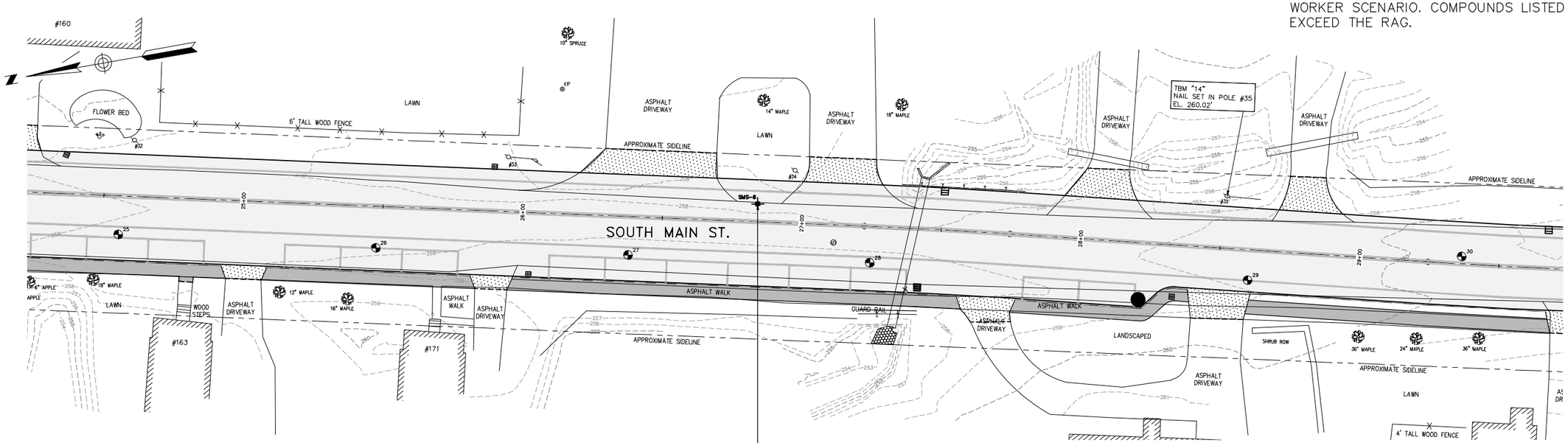
SMS-7 (STA:14+96)
BENZO(A)PYRENE
DIBENZ(A,H)ANTHRACENE
NAPHTHALENE (VOC)
NAPHTHALENE (VPH)

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.



SMS-8 (STA: 26+84)
SAMPLE NOT SUBMITTED TO LAB BASED ON FIELD ANALYSIS/ OBSERVATIONS

40' 0 40' 80'

BAR SCALE
1" = 40'
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REV	DESCRIPTION	DATE

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203970.25-SOIL TIDS.DWG

FIGURE 2
SOIL SAMPLING RESULTS

CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE II

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 3 OF 7

Fig. 2

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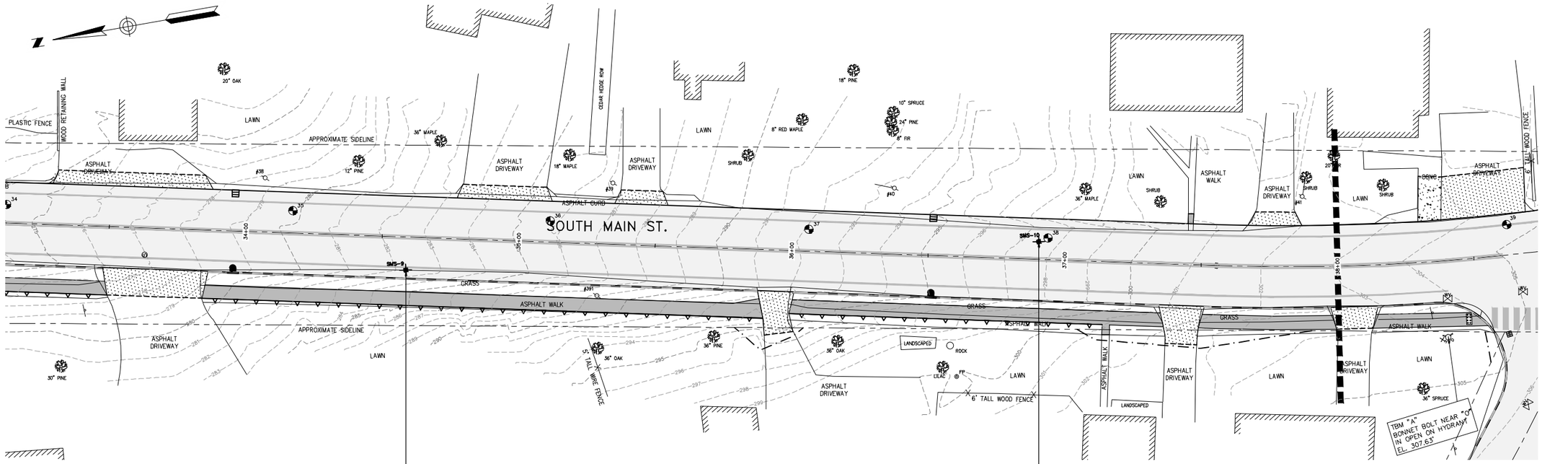

PLAN

SCALE: 1" = 40'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

SMS-9 (STA: 34+59)
SAMPLE NOT SUBMITTED TO LAB BASED ON FIELD ANALYSIS/ OBSERVATIONS

SMS-10 (STA: 36+90)
BENZO(A)ANTHRACENE
BENZO(A)PYRENE
BENZO(B)FLUORANTHENE
DIBENZ(A,H)ANTHRACENE
INDENO(1,2,3-CD)PYRENE

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

PRELIMINARY - NOT FOR CONSTRUCTION

41 Hutchins Drive
Portland, Maine 04102
800.426.4262 | www.woodardcurran.com
WOODARD & CURRAN
COMMITMENT & INTEGRITY DRIVE RESULTS

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REV	DESCRIPTION	DATE

DESIGNED BY: N/A
DRAWN BY: BCM
CHECKED BY: KML
203970.25-SOIL FIGS.DWG

FIGURE 3
SOIL SAMPLING RESULTS

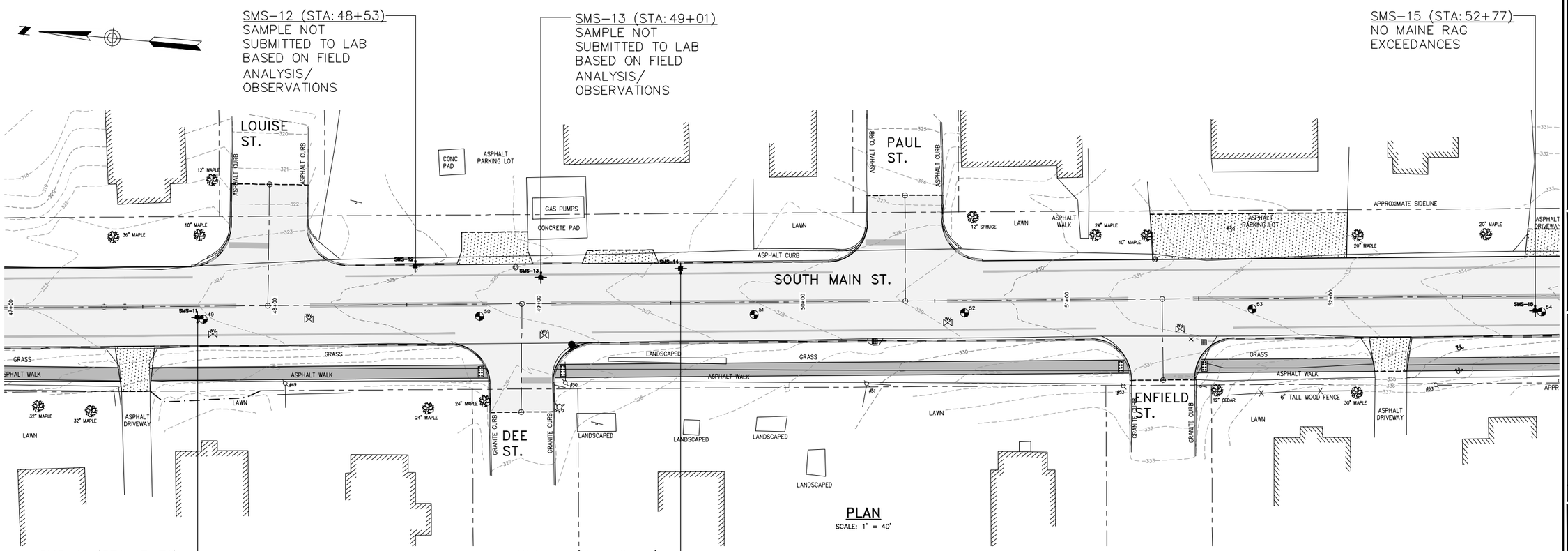
CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE II

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 4 OF 7

Fig. 3

O:\203970 City of Auburn-General Consulting Services\wip\25 South Main St Reborn\Drawings\design drawings\203970.25-Soil Figs.dwg, Apr 09, 2012 - 2:04pm



PLAN
SCALE: 1" = 40'

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.

40' 0 40' 80'
BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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REV	DESCRIPTION	DATE

DESIGNED BY: N/A
DRAWN BY: BCM
CHECKED BY: KML
203970.25-SOIL FIGS.DWG

FIGURE 4
SOIL SAMPLING RESULTS

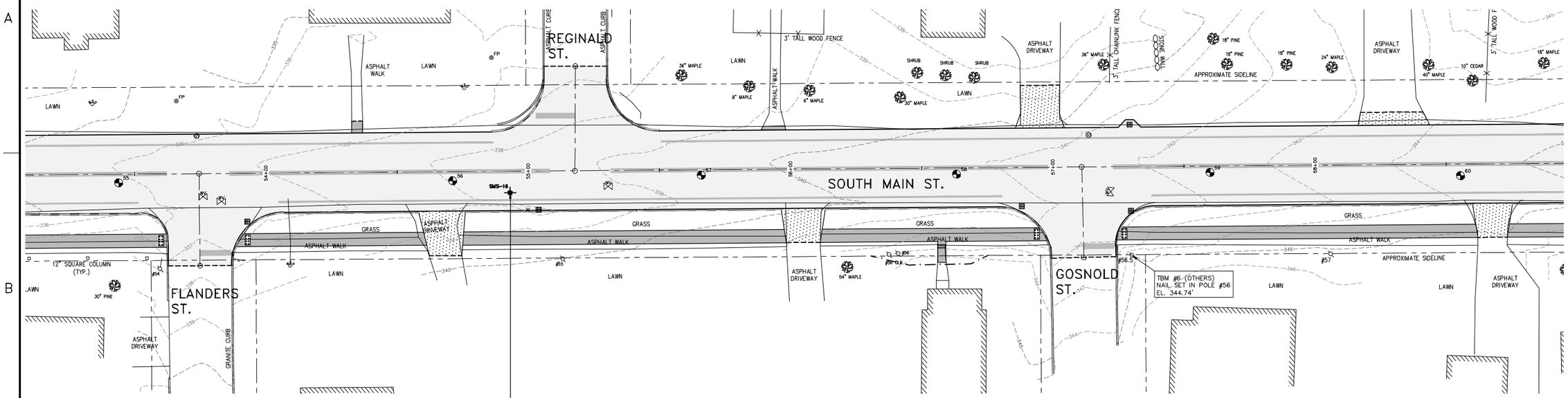
CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE I

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 5 OF 7

Fig. 4

G:\203970 City of Auburn-General Consulting Services\wip\25 South Main St Recon\Drawings\design drawings\203970.25-Soil Figs.dwg, Apr 09, 2012 - 2:06pm



PLAN

SCALE: 1" = 40'

SMS-16 (STA: 54+93)
2-METHYLNAPHTHALENE
BENZO(A)PYRENE
NAPHTHALENE (EPH)
NAPHTHALENE (VPH)

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.

40' 0 40' 80'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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REV	DESCRIPTION	DATE

DESIGNED BY: N/A
DRAWN BY: BCM
CHECKED BY: KML
203970.25-SOIL FIGS.DWG

FIGURE 5
SOIL SAMPLING RESULTS

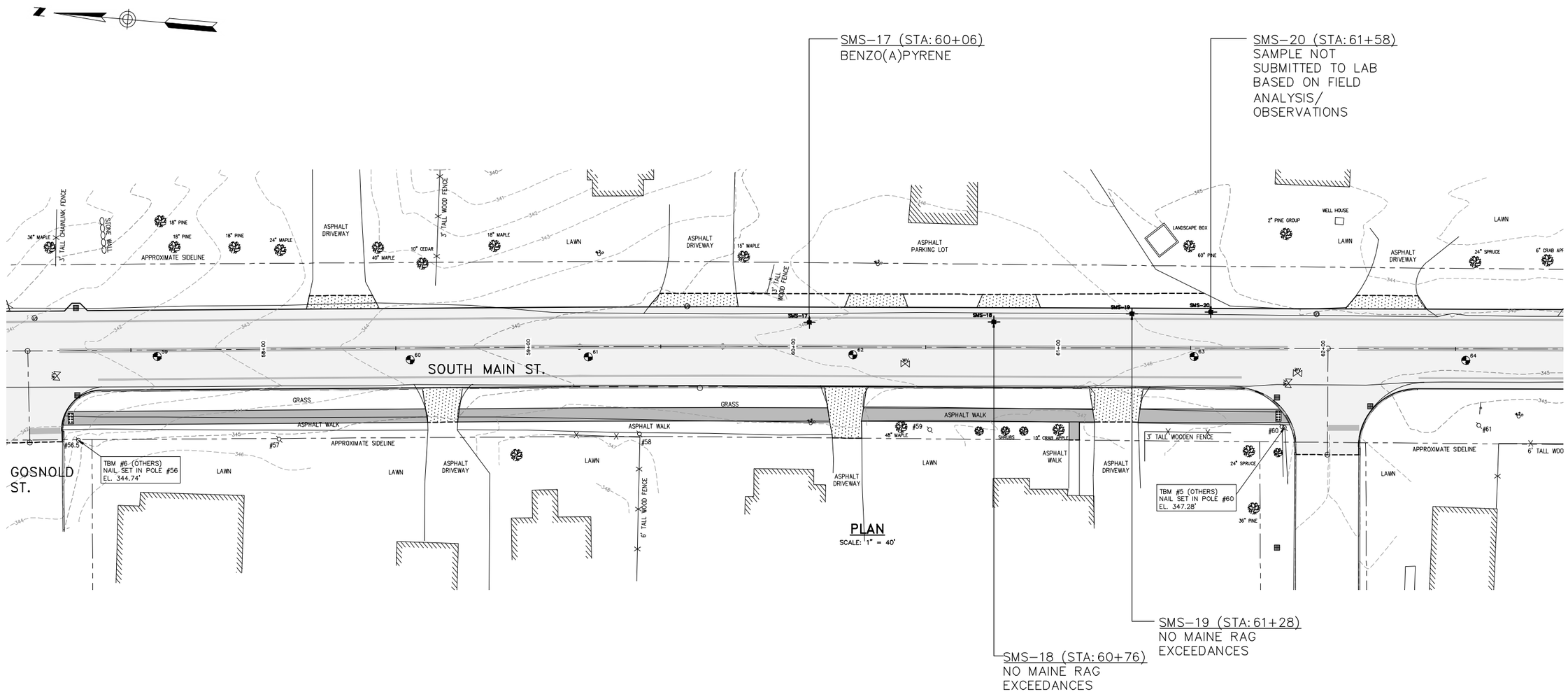
CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE I

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 6 OF 7

Fig. 5

C:\203970 City of Auburn-General Consulting Services\wip\25 South Main St Reconstruction\Drawings\design drawings\203970.25-Soil Figs.dwg, Apr 09, 2012 - 2:07pm



PLAN

SCALE: 1" = 40'

LEGEND

BORINGS PERFORMED FOR SUMMIT GEOENGINEERINGS SERVICES AS PART OF THE GEOTECHNICAL INVESTIGATION IN MAY 2011

BORINGS PERFORMED FOR WOODARD & CURRAN AS PART OF THE ENVIRONMENTAL INVESTIGATION CONDUCTED IN JANUARY 2012

NOTE: RESULTS WERE COMPARED TO THE MAINE REMEDIAL ACTION GUIDELINES (RAGS) FOR THE EXCAVATION OR CONSTRUCTION WORKER SCENARIO. COMPOUNDS LISTED EXCEED THE RAG.

40' 0 40' 80'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

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REV	DESCRIPTION	DATE

DESIGNED BY: N/A
DRAWN BY: BCM
CHECKED BY: MKL
203970.25-SOIL FIGS.DWG

FIGURE 6
SOIL SAMPLING RESULTS

CITY OF AUBURN
60 COURT STREET
AUBURN, ME 04210

SOUTH MAIN STREET RECONSTRUCTION
PHASE I

JOB NO.: 203970.25
DATE: APRIL 2012
SCALE: 1"=40'
SHEET: 7 OF 7

Fig. 6

O:\203970 City of Auburn-General Consulting Services\wip\25 South Main St Rebon\Drawings\design drawings\203970.25-Soil Figs.dwg, Apr 09, 2012 - 2:07pm

Constituents Exceeding Maine RAGs - South Main Street

	Maine RAGs - Excavation Worker Multiple Contaminant	SMS-2	SMS-3	SMS-4	SMS-6	SMS-7	SMS-10	SMS-11	SMS-14	SMS-15	SMS-16	SMS-17	SMS-18	SMS-19
2-methylnaphthalene	35	7.9	46	0.44	<RL	12	13	19	<RL	<RL	44	3.1	<RL	<RL
Benzo(a)anthracene	43	2.2	34	2.9	<RL	34	220	50	1.8	<RL	43	34	<RL	<RL
Benzo(a)pyrene	4.3	6.7	17	2.1	<RL	33	100	33	2.1	<RL	24	25	<RL	<RL
Benzo(b)fluoranthene	43	1.2	16	2	<RL	35	110	29	2.1	<RL	19	20	<RL	<RL
Dibenz(a,h)anthracene	4.3	<RL	2	0.27	<RL	5	15	3.9	0.46	<RL	2.8	4	<RL	<RL
Indeno(1,2,3-cd)pyrene	43	<RL	9.2	1.4	<RL	28	59	21	1.5	<RL	12	15	<RL	<RL
Naphthalene (VOC)	32	31	34	40	750	410	3.7	5.2	0.056	5.9	11	<RL	<RL	<RL
Naphthalene (EPH)	32	14	57	0.88	0.44	25	9.5	18	<RL	<RL	61	5.4	<RL	0.22
Naphthalene (VPH)	32	200	240	36	100	1300	2.2	16	<RL	<RL	95	<RL	<RL	<RL

	Maine RAGs - Residential Multiple Contaminant	SMS-2	SMS-3	SMS-4	SMS-6	SMS-7	SMS-10	SMS-11	SMS-14	SMS-15	SMS-16	SMS-17	SMS-18	SMS-19
Benzo(a)anthracene	0.26	2.2	34	2.9	<RL	34	220	50	1.8	<RL	43	34	<RL	<RL
Benzo(a)pyrene	0.026	6.7	17	2.1	<RL	33	100	33	2.1	<RL	24	25	<RL	<RL
Benzo(b)fluoranthene	0.26	1.2	16	2	<RL	35	110	29	2.1	<RL	19	20	<RL	<RL
Benzo(k)fluoranthene	2.6	1.3	17	2	<RL	26	120	31	2.1	<RL	20	20	<RL	<RL
C11-C22 Aromatics	730	820	1900	<RL	<RL	1200	3800	1900	<RL	<RL	2400	1900	<RL	<RL
Chrysene	26	<RL	28	<RL	<RL	<RL	150	39	<RL	<RL	36	30	<RL	<RL
Dibenz(a,h)anthracene	0.026	<RL	2	0.27	<RL	5	15	3.9	0.46	<RL	2.8	4	<RL	<RL
Indeno(1,2,3-cd)pyrene	0.26	<RL	9.2	1.4	<RL	28	59	21	1.5	<RL	12	15	<RL	<RL
Naphthalene (VOC)	200	31	34	40	750	410	3.7	5.2	0.056	5.9	11	<RL	<RL	<RL
Naphthalene (VPH)	197	200	240	36	100	1300	2.2	16	<RL	<RL	95	<RL	<RL	<RL

Notes:
RL = reporting limit
Results with gray shading exceed Multiple Contaminant RAG
Samples SMS-1, SMS-5, SMS-8, SMS-9, SMS-12, SMS-13, and SMS-20 were not sumbitted for laboratory analysis
since there was no indication of contamination during field tests/observations.

Katahdin ANALYTICAL SERVICES

nelac Cert. No. E87604

February 14, 2012

Ms. Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

RE: Katahdin Lab Number: SF0503
Project ID: Auburn-South Main St.
Project Manager: Ms. Jennifer Obrin
Sample Receipt Date(s): January 27, 2012

Dear Ms. Lambek:

Please find enclosed the following information:

* Report of Analysis (Analytical and/or Field)
* Quality Control Data Summary
* Chain of Custody (COC)
* Login Report

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to http://www.katahdinlab.com/cert.html for copies of Katahdin Analytical Services Inc. current certificates and analyte lists.

Sincerely,
KATAHDIN ANALYTICAL SERVICES

Deborah J Nadeau
Authorized Signature

02/14/2012
Date

TECHNICAL NARRATIVE

Organics Analysis

The samples of Work Order# SF0503 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), MADEP, May 2004, Revision 1.1, and/or Method for the Determination of Extractable Petroleum Hydrocarbons (EPH) MADEP, May 2004, Revision 1.1, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

The target analyte naphthalene was detected in the method blank WG104251-2 above the PQL. If the analyte was also detected in the associated sample, the analyte is flagged with a "B" qualifier indicating it was detected in the method blank analyzed concurrently with the sample.

The target analytes naphthalene and 1,2,3-trichlorobenzene were detected in the method blank WG104315-2 above the PQL. If the analytes were also detected in the associated samples, the analytes are flagged with a "B" qualifier indicating they were detected in the method blank analyzed concurrently with the sample.

The target analyte tetrachloroethene was detected in the methanol blanks WG104204-3 and WG104251-4 above the PQL. This analyte was not detected in any of the associated samples; therefore, no further action was taken.

Sample SF0503-6 was initially analyzed low level. Because the low level aliquots for this sample were not frozen within hold time the sample was reanalyzed as a medium level methanol sample. The client was contacted and instructed the lab to report both analyses.

The reported percent recovery acceptance limits for the Laboratory Control Samples (LCSs) are statistically derived for the full list of spiked compounds. The recoveries of the spiked analytes in the LCS, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are compared to these acceptance limits. Katahdin standard operating procedure is to take corrective action only if the number of spiked analytes in the LCS that are outside of the QC limits is greater than ten percent of the client compound list. The LCS report consists of the full list of spiked analytes, but only the client's list of target analytes are evaluated. If the associated MS/MSD has greater than the allowable number of exceedances, no corrective action is taken, as long as the LCS is acceptable.

MADEP VPH Analysis

Samples SF0503-14, 15, 18 and 19 were analyzed only at a dilution based on the results from the 8260 analyses. Consequently, the samples PQLs were elevated accordingly by the dilution factor.

Samples SF0503-5 and 11had low recoveries for the surrogate 2,5-dibromotoluene on the PID, which were outside of the method acceptance limits. Since the recoveries were acceptable on the FID, the

samples were not reanalyzed.

MADEP EPH Analysis

Samples SF0503-4, 10, and 14 were diluted before fractionation due to sample matrix. The sample PQLs were elevated accordingly. The fractionation surrogate recoveries were recalculated with a final volume of 2mL instead of 4mL.

Samples SF0503-5, 11, 18, and 19 were concentrated to a pre-fractionation final volume of 5ml, instead of the laboratory procedure of 1ml. The sample PQLs were elevated accordingly. The fractionation surrogate recoveries were recalculated with a final volume of 2mL instead of 10mL.

Sample SF0503-7 had a low recovery for the fractionation surrogate 2-fluorobiphenyl, which is outside the method acceptance limit. Since the second fractionation surrogate, 2-bromonaphthalene, had an acceptable recovery, the sample was not refractionated.

The LCS WG104143-2 had a low recovery for naphthalene which was outside of the method acceptance limits. Since the LCSD WG104143-3 had acceptable recoveries, the associated samples were not reextracted.

Samples SF0503-10 and 14 had high recoveries for the fractionation surrogate 2-bromonaphthalene, which were outside the method acceptance limit. Since the second fractionation surrogate, 2-fluorobiphenyl, had acceptable recoveries, the samples were not refractionated.

There were no other protocol deviations or observations noted by the organics laboratory staff.

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

KATAHDIN ANALYTICAL SERVICES – INORGANIC DATA QUALIFIERS
(Refer to BOD Qualifiers Page for BOD footnotes)

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U — Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

E — Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J — Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

I-7 — The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

A-4 — Please refer to cover letter or narrative for further information.

MCL — Maximum Contaminant Level

NL — No limit

NFL — No Free Liquid Present

FLP — Free Liquid Present

NOD — No Odor Detected

TON — Threshold Odor Number

H1 — Please note that the regulatory holding time for pH is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. pH for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H2 — Please note that the regulatory holding time for DO is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. DO for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H3 — Please note that the regulatory holding time for sulfite is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Sulfite for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

H4 — Please note that the regulatory holding time for residual chlorine is "analyze immediately". Ideally, this analysis must be performed in the field at the time of sample collection. Residual chlorine for this sample was not performed at the time of sample collection. The analysis was performed as soon as possible after receipt by the laboratory.

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 14:08
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 92.6

Lab ID: SF0503-1
Client ID: SMS-19
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	10	1.0	10	10
Chloromethane	U	10	1.0	10	10
Vinyl chloride	U	10	1.0	10	10
Bromomethane	U	10	1.0	10	10
Chloroethane	U	10	1.0	10	10
Trichlorofluoromethane	U	10	1.0	10	10
1,1-Dichloroethene	U	5	1.0	5	5
Methylene Chloride	U	26	1.0	25	26
trans-1,2-Dichloroethene	U	5	1.0	5	5
1,1-Dichloroethane	U	5	1.0	5	5
cis-1,2-Dichloroethene	U	5	1.0	5	5
1,2-Dichloroethylene (total)	U	10	1.0	10	10
2,2-Dichloropropane	U	5	1.0	5	5
Chloroform	U	5	1.0	5	5
Bromochloromethane	U	5	1.0	5	5
1,1,1-Trichloroethane	U	5	1.0	5	5
1,2-Dichloroethane	U	5	1.0	5	5
1,1-Dichloropropene	U	5	1.0	5	5
Carbon Tetrachloride	U	5	1.0	5	5
Benzene	U	5	1.0	5	5
1,2-Dichloropropane	U	5	1.0	5	5
Trichloroethene	U	5	1.0	5	5
Dibromomethane	U	5	1.0	5	5
Bromodichloromethane	U	5	1.0	5	5
cis-1,3-dichloropropene	U	5	1.0	5	5
Toluene	U	5	1.0	5	5
trans-1,3-Dichloropropene	U	5	1.0	5	5
1,1,2-Trichloroethane	U	5	1.0	5	5
1,3-Dichloropropane	U	5	1.0	5	5
Dibromochloromethane	U	5	1.0	5	5
Tetrachloroethene	U	5	1.0	5	5
1,2-Dibromoethane	U	5	1.0	5	5
Chlorobenzene	U	5	1.0	5	5
1,1,1,2-Tetrachloroethane	U	5	1.0	5	5
Ethylbenzene	U	5	1.0	5	5
Bromoform	U	5	1.0	5	5
Styrene	U	5	1.0	5	5
1,1,2,2-Tetrachloroethane	U	5	1.0	5	5
1,2,3-Trichloropropane	U	5	1.0	5	5
Isopropylbenzene	U	5	1.0	5	5
Bromobenzene	U	5	1.0	5	5
2-Chlorotoluene	U	5	1.0	5	5
N-Propylbenzene	U	5	1.0	5	5

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 14:08
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 92.6

Lab ID: SF0503-1
Client ID: SMS-19
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	5	1.0	5	5
1,3,5-Trimethylbenzene	U	5	1.0	5	5
tert-Butylbenzene	U	5	1.0	5	5
1,2,4-Trichlorobenzene	U	5	1.0	5	5
sec-Butylbenzene	U	5	1.0	5	5
1,3-Dichlorobenzene	U	5	1.0	5	5
P-Isopropyltoluene	U	5	1.0	5	5
1,4-Dichlorobenzene	U	5	1.0	5	5
1,2-Dichlorobenzene	U	5	1.0	5	5
N-Butylbenzene	U	5	1.0	5	5
1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5
1,2,4-Trimethylbenzene	U	5	1.0	5	5
Naphthalene	U	5	1.0	5	5
Hexachlorobutadiene	U	5	1.0	5	5
1,2,3-Trichlorobenzene	U	5	1.0	5	5
Methyl tert-butyl ether	U	5	1.0	5	5
Acetone	U	26	1.0	25	26
2-Butanone	U	26	1.0	25	26
4-methyl-2-pentanone	U	26	1.0	25	26
2-Hexanone	U	26	1.0	25	26
m+p-Xylenes	U	10	1.0	10	10
o-Xylene	U	5	1.0	5	5
Xylenes (total)	U	15	1.0	15	15
1,3,5-Trichlorobenzene	U	5	1.0	5	5
Vinyl Acetate	U	5	1.0	5	5
Carbon Disulfide	U	5	1.0	5	5
Diethyl Ether	U	5	1.0	5	5
Tetrahydrofuran	U	51	1.0	50	51
Dibromofluoromethane		76%			
1,2-Dichloroethane-D4		71%			
Toluene-D8		79%			
P-Bromofluorobenzene		64%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-19	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-1	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	93.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	21	21	mg/Kgdrywt	1	07-FEB-12	U
C9-C18 Aliphatics	21	21	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	21	21	mg/Kgdrywt	1	07-FEB-12	U
C11-C22 Aromatics	21.	21	mg/Kgdrywt	1	07-FEB-12	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.22	.21	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Phenanthrene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthylene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)anthracene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)pyrene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Benzo(b)fluoranthene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Benzo(g,h,i)perylene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Benzo(k)fluoranthene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Chrysene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Dibenzo(a,h)anthracene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Fluoranthene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Fluorene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Indeno(1,2,3-cd)pyrene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U
Pyrene	0.21	.21	mg/Kgdrywt	1	07-FEB-12	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	68	40-140	07-FEB-12	
o-Terphenyl	52	40-140	07-FEB-12	
2-Fluorobiphenyl	62	40-140	07-FEB-12	
2-Bromonaphthalene	68	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
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Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-19	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-1RA	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	93.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	25	25	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.5	2.5	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	91	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	88	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-001
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-19	SL	92.6	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	10.9	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-1
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-19	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	93. %	1		SM2540G	WG104216	01-FEB-12 11:02:19	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 01-FEB-2012 12:37
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 89.6

Lab ID: SF0503-3RA
Client ID: SMS-18
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	9	1.0	10	9
Chloromethane	U	9	1.0	10	9
Vinyl chloride	U	9	1.0	10	9
Bromomethane	U	9	1.0	10	9
Chloroethane	U	9	1.0	10	9
Trichlorofluoromethane	U	9	1.0	10	9
1,1-Dichloroethene	U	4	1.0	5	4
Methylene Chloride	U	23	1.0	25	23
trans-1,2-Dichloroethene	U	4	1.0	5	4
1,1-Dichloroethane	U	4	1.0	5	4
cis-1,2-Dichloroethene	U	4	1.0	5	4
1,2-Dichloroethylene (total)	U	9	1.0	10	9
2,2-Dichloropropane	U	4	1.0	5	4
Chloroform	U	4	1.0	5	4
Bromochloromethane	U	4	1.0	5	4
1,1,1-Trichloroethane	U	4	1.0	5	4
1,2-Dichloroethane	U	4	1.0	5	4
1,1-Dichloropropene	U	4	1.0	5	4
Carbon Tetrachloride	U	4	1.0	5	4
Benzene	U	4	1.0	5	4
1,2-Dichloropropane	U	4	1.0	5	4
Trichloroethene	U	4	1.0	5	4
Dibromomethane	U	4	1.0	5	4
Bromodichloromethane	U	4	1.0	5	4
cis-1,3-dichloropropene	U	4	1.0	5	4
Toluene	U	4	1.0	5	4
trans-1,3-Dichloropropene	U	4	1.0	5	4
1,1,2-Trichloroethane	U	4	1.0	5	4
1,3-Dichloropropane	U	4	1.0	5	4
Dibromochloromethane	U	4	1.0	5	4
Tetrachloroethene	U	4	1.0	5	4
1,2-Dibromoethane	U	4	1.0	5	4
Chlorobenzene	U	4	1.0	5	4
1,1,1,2-Tetrachloroethane	U	4	1.0	5	4
Ethylbenzene	U	4	1.0	5	4
Bromoform	U	4	1.0	5	4
Styrene	U	4	1.0	5	4
1,1,2,2-Tetrachloroethane	U	4	1.0	5	4
1,2,3-Trichloropropane	U	4	1.0	5	4
Isopropylbenzene	U	4	1.0	5	4
Bromobenzene	U	4	1.0	5	4
2-Chlorotoluene	U	4	1.0	5	4
N-Propylbenzene	U	4	1.0	5	4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 01-FEB-2012 12:37
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 89.6

Lab ID: SF0503-3RA
Client ID: SMS-18
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	4	1.0	5	4
1,3,5-Trimethylbenzene	U	4	1.0	5	4
tert-Butylbenzene	U	4	1.0	5	4
1,2,4-Trichlorobenzene	U	4	1.0	5	4
sec-Butylbenzene	U	4	1.0	5	4
1,3-Dichlorobenzene	U	4	1.0	5	4
P-Isopropyltoluene	U	4	1.0	5	4
1,4-Dichlorobenzene	U	4	1.0	5	4
1,2-Dichlorobenzene	U	4	1.0	5	4
N-Butylbenzene	U	4	1.0	5	4
1,2-Dibromo-3-Chloropropane	U	4	1.0	5	4
1,2,4-Trimethylbenzene	U	4	1.0	5	4
Naphthalene	U	4	1.0	5	4
Hexachlorobutadiene	U	4	1.0	5	4
1,2,3-Trichlorobenzene	U	4	1.0	5	4
Methyl tert-butyl ether	U	4	1.0	5	4
Acetone	U	23	1.0	25	23
2-Butanone	U	23	1.0	25	23
4-methyl-2-pentanone	U	23	1.0	25	23
2-Hexanone	U	23	1.0	25	23
m+p-Xylenes	U	9	1.0	10	9
o-Xylene	U	4	1.0	5	4
Xylenes (total)	U	14	1.0	15	14
1,3,5-Trichlorobenzene	U	4	1.0	5	4
Vinyl Acetate	U	4	1.0	5	4
Carbon Disulfide	U	4	1.0	5	4
Diethyl Ether	U	4	1.0	5	4
Tetrahydrofuran	U	46	1.0	50	46
Dibromofluoromethane		82%			
1,2-Dichloroethane-D4		79%			
Toluene-D8		89%			
P-Bromofluorobenzene		79%			

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-18	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-3	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	90.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C9-C18 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C11-C22 Aromatics	22.	22	mg/Kgdrywt	1	07-FEB-12	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
2-Methylnaphthalene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Phenanthrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthylene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(b)fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(g,h,i)perylene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(k)fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Chrysene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Dibenzo(a,h)anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Fluorene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Indeno(1,2,3-cd)pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	74	40-140	07-FEB-12	
o-Terphenyl	60	40-140	07-FEB-12	
2-Fluorobiphenyl	70	40-140	07-FEB-12	
2-Bromonaphthalene	76	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-18	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-3RA	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	90.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	26	26	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	26	26	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	26	26	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	26	26	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	26	26	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.6	2.6	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.3	1.3	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	84	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	82	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-003
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-18	SL	89.6	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	7.8	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-3
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-18	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	90. %	1		SM2540G	WG104216	01-FEB-12 11:02:31	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

http://katahdinlab.com
sales@katahdinlab.com

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 15:25
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 94.8

Lab ID: SF0503-4
Client ID: SMS-17
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	9	1.0	10	9
Chloromethane	U	9	1.0	10	9
Vinyl chloride	U	9	1.0	10	9
Bromomethane	U	9	1.0	10	9
Chloroethane	U	9	1.0	10	9
Trichlorofluoromethane	U	9	1.0	10	9
1,1-Dichloroethene	U	4	1.0	5	4
Methylene Chloride	U	23	1.0	25	23
trans-1,2-Dichloroethene	U	4	1.0	5	4
1,1-Dichloroethane	U	4	1.0	5	4
cis-1,2-Dichloroethene	U	4	1.0	5	4
1,2-Dichloroethylene (total)	U	9	1.0	10	9
2,2-Dichloropropane	U	4	1.0	5	4
Chloroform	U	4	1.0	5	4
Bromochloromethane	U	4	1.0	5	4
1,1,1-Trichloroethane	U	4	1.0	5	4
1,2-Dichloroethane	U	4	1.0	5	4
1,1-Dichloropropene	U	4	1.0	5	4
Carbon Tetrachloride	U	4	1.0	5	4
Benzene	U	4	1.0	5	4
1,2-Dichloropropane	U	4	1.0	5	4
Trichloroethene	U	4	1.0	5	4
Dibromomethane	U	4	1.0	5	4
Bromodichloromethane	U	4	1.0	5	4
cis-1,3-dichloropropene	U	4	1.0	5	4
Toluene	U	4	1.0	5	4
trans-1,3-Dichloropropene	U	4	1.0	5	4
1,1,2-Trichloroethane	U	4	1.0	5	4
1,3-Dichloropropane	U	4	1.0	5	4
Dibromochloromethane	U	4	1.0	5	4
Tetrachloroethene	U	4	1.0	5	4
1,2-Dibromoethane	U	4	1.0	5	4
Chlorobenzene	U	4	1.0	5	4
1,1,1,2-Tetrachloroethane	U	4	1.0	5	4
Ethylbenzene	U	4	1.0	5	4
Bromoform	U	4	1.0	5	4
Styrene	U	4	1.0	5	4
1,1,2,2-Tetrachloroethane	U	4	1.0	5	4
1,2,3-Trichloropropane	U	4	1.0	5	4
Isopropylbenzene	U	4	1.0	5	4
Bromobenzene	U	4	1.0	5	4
2-Chlorotoluene	U	4	1.0	5	4
N-Propylbenzene	U	4	1.0	5	4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 15:25
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 94.8

Lab ID: SF0503-4
Client ID: SMS-17
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	4	1.0	5	4
1,3,5-Trimethylbenzene	U	4	1.0	5	4
tert-Butylbenzene	U	4	1.0	5	4
1,2,4-Trichlorobenzene	U	4	1.0	5	4
sec-Butylbenzene	U	4	1.0	5	4
1,3-Dichlorobenzene	U	4	1.0	5	4
P-Isopropyltoluene	U	4	1.0	5	4
1,4-Dichlorobenzene	U	4	1.0	5	4
1,2-Dichlorobenzene	U	4	1.0	5	4
N-Butylbenzene	U	4	1.0	5	4
1,2-Dibromo-3-Chloropropane	U	4	1.0	5	4
1,2,4-Trimethylbenzene	U	4	1.0	5	4
Naphthalene	U	4	1.0	5	4
Hexachlorobutadiene	U	4	1.0	5	4
1,2,3-Trichlorobenzene	U	4	1.0	5	4
Methyl tert-butyl ether	U	4	1.0	5	4
Acetone	U	23	1.0	25	23
2-Butanone	U	23	1.0	25	23
4-methyl-2-pentanone	U	23	1.0	25	23
2-Hexanone	U	23	1.0	25	23
m+p-Xylenes	U	9	1.0	10	9
o-Xylene	U	4	1.0	5	4
Xylenes (total)	U	14	1.0	15	14
1,3,5-Trichlorobenzene	U	4	1.0	5	4
Vinyl Acetate	U	4	1.0	5	4
Carbon Disulfide	U	4	1.0	5	4
Diethyl Ether	U	4	1.0	5	4
Tetrahydrofuran	U	46	1.0	50	46
Dibromofluoromethane		79%			
1,2-Dichloroethane-D4		77%			
Toluene-D8		77%			
P-Bromofluorobenzene		56%			

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-17	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-4	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	95.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	2200	84	mg/Kgdrywt	2	07-FEB-12	
C9-C18 Aliphatics	84	84	mg/Kgdrywt	2	07-FEB-12	U
C19-C36 Aliphatics	520	84	mg/Kgdrywt	2	07-FEB-12	
C11-C22 Aromatics	1900	84	mg/Kgdrywt	2	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	5.4	.84	mg/Kgdrywt	2	07-FEB-12	
2-Methylnaphthalene	3.1	.84	mg/Kgdrywt	2	07-FEB-12	
Phenanthrene	15	.84	mg/Kgdrywt	2	07-FEB-12	
Acenaphthylene	7.9	.84	mg/Kgdrywt	2	07-FEB-12	
Acenaphthene	0.84	.84	mg/Kgdrywt	2	07-FEB-12	U
Anthracene	5.9	.84	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)anthracene	34	.84	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)pyrene	25	.84	mg/Kgdrywt	2	07-FEB-12	
Benzo(b)fluoranthene	20	.84	mg/Kgdrywt	2	07-FEB-12	
Benzo(g,h,i)perylene	17	.84	mg/Kgdrywt	2	07-FEB-12	
Benzo(k)fluoranthene	20	.84	mg/Kgdrywt	2	07-FEB-12	
Chrysene	30	.84	mg/Kgdrywt	2	07-FEB-12	
Dibenzo(a,h)anthracene	4.0	.84	mg/Kgdrywt	2	07-FEB-12	
Fluoranthene	25	.84	mg/Kgdrywt	2	07-FEB-12	
Fluorene	0.84	.84	mg/Kgdrywt	2	07-FEB-12	U
Indeno(1,2,3-cd)pyrene	15	.84	mg/Kgdrywt	2	07-FEB-12	
Pyrene	47	.84	mg/Kgdrywt	2	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	76	40-140	07-FEB-12	
o-Terphenyl	75	40-140	07-FEB-12	
2-Fluorobiphenyl	110	40-140	07-FEB-12	
2-Bromonaphthalene	114	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-17	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-4RA	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	95.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	24	24	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.4	2.4	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	74	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	73	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-004
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-17	SL	94.8	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	23.3	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-4
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-17	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	95. %	1		SM2540G	WG104216	01-FEB-12 11:02:41	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 12:51
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 99.2

Lab ID: SF0503-5DL
Client ID: SMS-16
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	920	1.0	10	920
Chloromethane	U	920	1.0	10	920
Vinyl chloride	U	920	1.0	10	920
Bromomethane	U	920	1.0	10	920
Chloroethane	U	920	1.0	10	920
Trichlorofluoromethane	U	920	1.0	10	920
1,1-Dichloroethene	U	460	1.0	5	460
Methylene Chloride	U	2300	1.0	25	2300
trans-1,2-Dichloroethene	U	460	1.0	5	460
1,1-Dichloroethane	U	460	1.0	5	460
cis-1,2-Dichloroethene	U	460	1.0	5	460
1,2-Dichloroethylene (total)	U	920	1.0	10	920
2,2-Dichloropropane	U	460	1.0	5	460
Chloroform	U	460	1.0	5	460
Bromochloromethane	U	460	1.0	5	460
1,1,1-Trichloroethane	U	460	1.0	5	460
1,2-Dichloroethane	U	460	1.0	5	460
1,1-Dichloropropene	U	460	1.0	5	460
Carbon Tetrachloride	U	460	1.0	5	460
Benzene	U	460	1.0	5	460
1,2-Dichloropropane	U	460	1.0	5	460
Trichloroethene	U	460	1.0	5	460
Dibromomethane	U	460	1.0	5	460
Bromodichloromethane	U	460	1.0	5	460
cis-1,3-dichloropropene	U	460	1.0	5	460
Toluene	U	460	1.0	5	460
trans-1,3-Dichloropropene	U	460	1.0	5	460
1,1,2-Trichloroethane	U	460	1.0	5	460
1,3-Dichloropropane	U	460	1.0	5	460
Dibromochloromethane	U	460	1.0	5	460
Tetrachloroethene	U	460	1.0	5	460
1,2-Dibromoethane	U	460	1.0	5	460
Chlorobenzene	U	460	1.0	5	460
1,1,1,2-Tetrachloroethane	U	460	1.0	5	460
Ethylbenzene	U	460	1.0	5	460
Bromoform	U	460	1.0	5	460
Styrene	U	460	1.0	5	460
1,1,2,2-Tetrachloroethane	U	460	1.0	5	460
1,2,3-Trichloropropane	U	460	1.0	5	460
Isopropylbenzene	U	460	1.0	5	460
Bromobenzene	U	460	1.0	5	460
2-Chlorotoluene	U	460	1.0	5	460
N-Propylbenzene	U	460	1.0	5	460

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 12:51
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 99.2

Lab ID: SF0503-5DL
Client ID: SMS-16
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	460	1.0	5	460
1,3,5-Trimethylbenzene		2100	1.0	5	460
tert-Butylbenzene	U	460	1.0	5	460
1,2,4-Trichlorobenzene	U	460	1.0	5	460
sec-Butylbenzene	U	460	1.0	5	460
1,3-Dichlorobenzene	U	460	1.0	5	460
P-Isopropyltoluene	U	460	1.0	5	460
1,4-Dichlorobenzene	U	460	1.0	5	460
1,2-Dichlorobenzene	U	460	1.0	5	460
N-Butylbenzene	U	460	1.0	5	460
1,2-Dibromo-3-Chloropropane	U	460	1.0	5	460
1,2,4-Trimethylbenzene		4700	1.0	5	460
Naphthalene		11000	1.0	5	460
Hexachlorobutadiene	U	460	1.0	5	460
1,2,3-Trichlorobenzene	U	460	1.0	5	460
Methyl tert-butyl ether	U	460	1.0	5	460
Acetone	U	2300	1.0	25	2300
2-Butanone	U	2300	1.0	25	2300
4-methyl-2-pentanone	U	2300	1.0	25	2300
2-Hexanone	U	2300	1.0	25	2300
m+p-Xylenes	U	920	1.0	10	920
o-Xylene		900	1.0	5	460
Xylenes (total)		1600	1.0	15	1400
1,3,5-Trichlorobenzene	U	460	1.0	5	460
Vinyl Acetate	U	460	1.0	5	460
Carbon Disulfide	U	460	1.0	5	460
Diethyl Ether	U	460	1.0	5	460
Tetrahydrofuran	U	4600	1.0	50	4600
Dibromofluoromethane		116%			
1,2-Dichloroethane-D4		115%			
Toluene-D8		115%			
P-Bromofluorobenzene		118%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-16	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-5	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	99.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	3100	100	mg/Kgdrywt	1	07-FEB-12	
C9-C18 Aliphatics	280	100	mg/Kgdrywt	1	07-FEB-12	
C19-C36 Aliphatics	320	100	mg/Kgdrywt	1	07-FEB-12	
C11-C22 Aromatics	2400	100	mg/Kgdrywt	1	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	61	1	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	44	1	mg/Kgdrywt	1	07-FEB-12	
Phenanthrene	170	1	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	17	1	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	7.7	1	mg/Kgdrywt	1	07-FEB-12	
Anthracene	25	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)anthracene	43	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	24	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	19	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	13	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(k)fluoranthene	20	1	mg/Kgdrywt	1	07-FEB-12	
Chrysene	36	1	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	2.8	1	mg/Kgdrywt	1	07-FEB-12	
Fluoranthene	68	1	mg/Kgdrywt	1	07-FEB-12	
Fluorene	33	1	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	12	1	mg/Kgdrywt	1	07-FEB-12	
Pyrene	91	1	mg/Kgdrywt	1	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	52	40-140	07-FEB-12	
o-Terphenyl	103	40-140	07-FEB-12	
2-Fluorobiphenyl	56	40-140	07-FEB-12	
2-Bromonaphthalene	79	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
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Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-16	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-5	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	99.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	34	34	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	120	34	mg/Kgdrywt	1	07-FEB-12	
C5-C8 Aliphatics	34	34	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	47.	34	mg/Kgdrywt	1	07-FEB-12	
C9-C10 Aromatics	72	34	mg/Kgdrywt	1	07-FEB-12	

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.7	1.7	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.7	1.7	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.7	1.7	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	95	1.7	mg/Kgdrywt	1	07-FEB-12	
Toluene	1.7	1.7	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	3.4	3.4	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.7	1.7	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	71	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	58	70-130	07-FEB-12	*

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-005
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-16	SL	99.2	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	10.0	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-5
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-16	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	99. %	1		SM2540G	WG104216	01-FEB-12 11:02:53	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: AUBURN-SOUTH MAIN STREET
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 16:04
Report Date: 02/08/2012
Matrix: SOIL
% Solids: 98.5

Lab ID: SF0503-6
Client ID: SMS-15
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	10	1.0	10	10
Chloromethane	U	10	1.0	10	10
Vinyl chloride	U	10	1.0	10	10
Bromomethane	U	10	1.0	10	10
Chloroethane	U	10	1.0	10	10
Trichlorofluoromethane	U	10	1.0	10	10
1,1-Dichloroethene	U	5	1.0	5	5
Methylene Chloride	U	25	1.0	25	25
trans-1,2-Dichloroethene	U	5	1.0	5	5
1,1-Dichloroethane	U	5	1.0	5	5
cis-1,2-Dichloroethene	U	5	1.0	5	5
1,2-Dichloroethylene (total)	U	10	1.0	10	10
2,2-Dichloropropane	U	5	1.0	5	5
Chloroform	U	5	1.0	5	5
Bromochloromethane	U	5	1.0	5	5
1,1,1-Trichloroethane	U	5	1.0	5	5
1,2-Dichloroethane	U	5	1.0	5	5
1,1-Dichloropropene	U	5	1.0	5	5
Carbon Tetrachloride	U	5	1.0	5	5
Benzene	U	5	1.0	5	5
1,2-Dichloropropane	U	5	1.0	5	5
Trichloroethene	U	5	1.0	5	5
Dibromomethane	U	5	1.0	5	5
Bromodichloromethane	U	5	1.0	5	5
cis-1,3-dichloropropene	U	5	1.0	5	5
Toluene	U	5	1.0	5	5
trans-1,3-Dichloropropene	U	5	1.0	5	5
1,1,2-Trichloroethane	U	5	1.0	5	5
1,3-Dichloropropane	U	5	1.0	5	5
Dibromochloromethane	U	5	1.0	5	5
Tetrachloroethene	U	5	1.0	5	5
1,2-Dibromoethane	U	5	1.0	5	5
Chlorobenzene	U	5	1.0	5	5
1,1,1,2-Tetrachloroethane	U	5	1.0	5	5
Ethylbenzene	U	5	1.0	5	5
Bromoform	U	5	1.0	5	5
Styrene	U	5	1.0	5	5
1,1,2,2-Tetrachloroethane	U	5	1.0	5	5
1,2,3-Trichloropropane	U	5	1.0	5	5
Isopropylbenzene	U	5	1.0	5	5
Bromobenzene	U	5	1.0	5	5
2-Chlorotoluene	U	5	1.0	5	5
N-Propylbenzene	U	5	1.0	5	5

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: AUBURN-SOUTH MAIN STREET
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 16:04
Report Date: 02/08/2012
Matrix: SOIL
% Solids: 98.5

Lab ID: SF0503-6
Client ID: SMS-15
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	5	1.0	5	5
1,3,5-Trimethylbenzene	U	5	1.0	5	5
tert-Butylbenzene	U	5	1.0	5	5
1,2,4-Trichlorobenzene	U	5	1.0	5	5
sec-Butylbenzene	U	5	1.0	5	5
1,3-Dichlorobenzene	U	5	1.0	5	5
P-Isopropyltoluene	U	5	1.0	5	5
1,4-Dichlorobenzene	U	5	1.0	5	5
1,2-Dichlorobenzene	U	5	1.0	5	5
N-Butylbenzene	U	5	1.0	5	5
1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5
1,2,4-Trimethylbenzene	U	5	1.0	5	5
Naphthalene	U	5	1.0	5	5
Hexachlorobutadiene	U	5	1.0	5	5
1,2,3-Trichlorobenzene	U	5	1.0	5	5
Methyl tert-butyl ether	U	5	1.0	5	5
Acetone	U	25	1.0	25	25
2-Butanone	U	25	1.0	25	25
4-methyl-2-pentanone	U	25	1.0	25	25
2-Hexanone	U	25	1.0	25	25
m+p-Xylenes	U	10	1.0	10	10
o-Xylene	U	5	1.0	5	5
Xylenes (total)	U	15	1.0	15	15
1,3,5-Trichlorobenzene	U	5	1.0	5	5
Vinyl Acetate	U	5	1.0	5	5
Carbon Disulfide	U	5	1.0	5	5
Diethyl Ether	U	5	1.0	5	5
Tetrahydrofuran	U	50	1.0	50	50
Dibromofluoromethane		81%			
1,2-Dichloroethane-D4		81%			
Toluene-D8		86%			
P-Bromofluorobenzene		80%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 01-FEB-2012 17:49
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 98.5

Lab ID: SF0503-6DL
Client ID: SMS-15
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	420	1.0	10	420
Chloromethane	U	420	1.0	10	420
Vinyl chloride	U	420	1.0	10	420
Bromomethane	U	420	1.0	10	420
Chloroethane	U	420	1.0	10	420
Trichlorofluoromethane	U	420	1.0	10	420
1,1-Dichloroethene	U	210	1.0	5	210
Methylene Chloride	U	1000	1.0	25	1000
trans-1,2-Dichloroethene	U	210	1.0	5	210
1,1-Dichloroethane	U	210	1.0	5	210
cis-1,2-Dichloroethene	U	210	1.0	5	210
1,2-Dichloroethylene (total)	U	420	1.0	10	420
2,2-Dichloropropane	U	210	1.0	5	210
Chloroform	U	210	1.0	5	210
Bromochloromethane	U	210	1.0	5	210
1,1,1-Trichloroethane	U	210	1.0	5	210
1,2-Dichloroethane	U	210	1.0	5	210
1,1-Dichloropropene	U	210	1.0	5	210
Carbon Tetrachloride	U	210	1.0	5	210
Benzene	U	210	1.0	5	210
1,2-Dichloropropane	U	210	1.0	5	210
Trichloroethene	U	210	1.0	5	210
Dibromomethane	U	210	1.0	5	210
Bromodichloromethane	U	210	1.0	5	210
cis-1,3-dichloropropene	U	210	1.0	5	210
Toluene	U	210	1.0	5	210
trans-1,3-Dichloropropene	U	210	1.0	5	210
1,1,2-Trichloroethane	U	210	1.0	5	210
1,3-Dichloropropane	U	210	1.0	5	210
Dibromochloromethane	U	210	1.0	5	210
Tetrachloroethene	U	210	1.0	5	210
1,2-Dibromoethane	U	210	1.0	5	210
Chlorobenzene	U	210	1.0	5	210
1,1,1,2-Tetrachloroethane	U	210	1.0	5	210
Ethylbenzene	U	210	1.0	5	210
Bromoform	U	210	1.0	5	210
Styrene	U	210	1.0	5	210
1,1,2,2-Tetrachloroethane	U	210	1.0	5	210
1,2,3-Trichloropropane	U	210	1.0	5	210
Isopropylbenzene	U	210	1.0	5	210
Bromobenzene	U	210	1.0	5	210
2-Chlorotoluene	U	210	1.0	5	210
N-Propylbenzene	U	210	1.0	5	210

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 01-FEB-2012 17:49
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 98.5

Lab ID: SF0503-6DL
Client ID: SMS-15
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	210	1.0	5	210
1,3,5-Trimethylbenzene	U	210	1.0	5	210
tert-Butylbenzene	U	210	1.0	5	210
1,2,4-Trichlorobenzene	U	210	1.0	5	210
sec-Butylbenzene	U	210	1.0	5	210
1,3-Dichlorobenzene	U	210	1.0	5	210
P-Isopropyltoluene	U	210	1.0	5	210
1,4-Dichlorobenzene	U	210	1.0	5	210
1,2-Dichlorobenzene	U	210	1.0	5	210
N-Butylbenzene	U	210	1.0	5	210
1,2-Dibromo-3-Chloropropane	U	210	1.0	5	210
1,2,4-Trimethylbenzene	U	210	1.0	5	210
Naphthalene	B	5900	1.0	5	210
Hexachlorobutadiene	U	210	1.0	5	210
1,2,3-Trichlorobenzene	U	210	1.0	5	210
Methyl tert-butyl ether	U	210	1.0	5	210
Acetone	U	1000	1.0	25	1000
2-Butanone	U	1000	1.0	25	1000
4-methyl-2-pentanone	U	1000	1.0	25	1000
2-Hexanone	U	1000	1.0	25	1000
m+p-Xylenes	U	420	1.0	10	420
o-Xylene	U	210	1.0	5	210
Xylenes (total)	U	630	1.0	15	630
1,3,5-Trichlorobenzene	U	210	1.0	5	210
Vinyl Acetate	U	210	1.0	5	210
Carbon Disulfide	U	210	1.0	5	210
Diethyl Ether	U	210	1.0	5	210
Tetrahydrofuran	U	2100	1.0	50	2100
Dibromofluoromethane		101%			
1,2-Dichloroethane-D4		98%			
Toluene-D8		103%			
P-Bromofluorobenzene		99%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-15	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-6	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	98.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	20	20	mg/Kgdrywt	1	07-FEB-12	U
C9-C18 Aliphatics	20	20	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	20	20	mg/Kgdrywt	1	07-FEB-12	U
C11-C22 Aromatics	20.	20	mg/Kgdrywt	1	07-FEB-12	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
2-Methylnaphthalene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Phenanthrene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthylene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)anthracene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)pyrene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Benzo(b)fluoranthene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Benzo(g,h,i)perylene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Benzo(k)fluoranthene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Chrysene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Dibenzo(a,h)anthracene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Fluoranthene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Fluorene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Indeno(1,2,3-cd)pyrene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U
Pyrene	0.20	.2	mg/Kgdrywt	1	07-FEB-12	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	60	40-140	07-FEB-12	
o-Terphenyl	47	40-140	07-FEB-12	
2-Fluorobiphenyl	63	40-140	07-FEB-12	
2-Bromonaphthalene	64	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-15	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-6	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	98.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	25	25	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.5	2.5	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	75	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	72	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-006
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-15	SL	98.5	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	2.8	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-6
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-15	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	98. %	1		SM2540G	WG104216	01-FEB-12 11:03:05	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 16:42
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 88.4

Lab ID: SF0503-7
Client ID: SMS-14
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	9	1.0	10	9
Chloromethane	U	9	1.0	10	9
Vinyl chloride	U	9	1.0	10	9
Bromomethane	U	9	1.0	10	9
Chloroethane	U	9	1.0	10	9
Trichlorofluoromethane	U	9	1.0	10	9
1,1-Dichloroethene	U	4	1.0	5	4
Methylene Chloride	U	23	1.0	25	23
trans-1,2-Dichloroethene	U	4	1.0	5	4
1,1-Dichloroethane	U	4	1.0	5	4
cis-1,2-Dichloroethene	U	4	1.0	5	4
1,2-Dichloroethylene (total)	U	9	1.0	10	9
2,2-Dichloropropane	U	4	1.0	5	4
Chloroform	U	4	1.0	5	4
Bromochloromethane	U	4	1.0	5	4
1,1,1-Trichloroethane	U	4	1.0	5	4
1,2-Dichloroethane	U	4	1.0	5	4
1,1-Dichloropropene	U	4	1.0	5	4
Carbon Tetrachloride	U	4	1.0	5	4
Benzene	U	4	1.0	5	4
1,2-Dichloropropane	U	4	1.0	5	4
Trichloroethene	U	4	1.0	5	4
Dibromomethane	U	4	1.0	5	4
Bromodichloromethane	U	4	1.0	5	4
cis-1,3-dichloropropene	U	4	1.0	5	4
Toluene	U	4	1.0	5	4
trans-1,3-Dichloropropene	U	4	1.0	5	4
1,1,2-Trichloroethane	U	4	1.0	5	4
1,3-Dichloropropane	U	4	1.0	5	4
Dibromochloromethane	U	4	1.0	5	4
Tetrachloroethene	U	4	1.0	5	4
1,2-Dibromoethane	U	4	1.0	5	4
Chlorobenzene	U	4	1.0	5	4
1,1,1,2-Tetrachloroethane	U	4	1.0	5	4
Ethylbenzene	U	4	1.0	5	4
Bromoform	U	4	1.0	5	4
Styrene	U	4	1.0	5	4
1,1,2,2-Tetrachloroethane	U	4	1.0	5	4
1,2,3-Trichloropropane	U	4	1.0	5	4
Isopropylbenzene	U	4	1.0	5	4
Bromobenzene	U	4	1.0	5	4
2-Chlorotoluene	U	4	1.0	5	4
N-Propylbenzene	U	4	1.0	5	4

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 16:42
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 88.4

Lab ID: SF0503-7
Client ID: SMS-14
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	4	1.0	5	4
1,3,5-Trimethylbenzene	U	4	1.0	5	4
tert-Butylbenzene	U	4	1.0	5	4
1,2,4-Trichlorobenzene	U	4	1.0	5	4
sec-Butylbenzene	U	4	1.0	5	4
1,3-Dichlorobenzene	U	4	1.0	5	4
P-Isopropyltoluene	U	4	1.0	5	4
1,4-Dichlorobenzene	U	4	1.0	5	4
1,2-Dichlorobenzene	U	4	1.0	5	4
N-Butylbenzene	U	4	1.0	5	4
1,2-Dibromo-3-Chloropropane	U	4	1.0	5	4
1,2,4-Trimethylbenzene	U	4	1.0	5	4
Naphthalene		56	1.0	5	4
Hexachlorobutadiene	U	4	1.0	5	4
1,2,3-Trichlorobenzene	U	4	1.0	5	4
Methyl tert-butyl ether	U	4	1.0	5	4
Acetone	U	23	1.0	25	23
2-Butanone	U	23	1.0	25	23
4-methyl-2-pentanone	U	23	1.0	25	23
2-Hexanone	U	23	1.0	25	23
m+p-Xylenes	U	9	1.0	10	9
o-Xylene	U	4	1.0	5	4
Xylenes (total)	U	14	1.0	15	14
1,3,5-Trichlorobenzene	U	4	1.0	5	4
Vinyl Acetate	U	4	1.0	5	4
Carbon Disulfide	U	4	1.0	5	4
Diethyl Ether	U	4	1.0	5	4
Tetrahydrofuran	U	45	1.0	50	45
Dibromofluoromethane		72%			
1,2-Dichloroethane-D4		71%			
Toluene-D8		76%			
P-Bromofluorobenzene		57%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-14	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-7	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	88.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	100	22	mg/Kgdrywt	1	07-FEB-12	
C9-C18 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C11-C22 Aromatics	81.	22	mg/Kgdrywt	1	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
2-Methylnaphthalene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Phenanthrene	1.8	.22	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	0.55	.22	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.38	.22	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)anthracene	1.8	.22	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	2.1	.22	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	2.1	.22	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	1.6	.22	mg/Kgdrywt	1	07-FEB-12	
Benzo(k)fluoranthene	2.1	.22	mg/Kgdrywt	1	07-FEB-12	
Chrysene	2.1	.22	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	0.46	.22	mg/Kgdrywt	1	07-FEB-12	
Fluoranthene	3.5	.22	mg/Kgdrywt	1	07-FEB-12	
Fluorene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	1.5	.22	mg/Kgdrywt	1	07-FEB-12	
Pyrene	3.5	.22	mg/Kgdrywt	1	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	69	40-140	07-FEB-12	
o-Terphenyl	65	40-140	07-FEB-12	
2-Fluorobiphenyl	19	40-140	07-FEB-12	*
2-Bromonaphthalene	46	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-14	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-7RA	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	88.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	38	38	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	38	38	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	38	38	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	38	38	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	38	38	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	3.8	3.8	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.9	1.9	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	77	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	76	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-007
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-14	SL	88.4	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	13.4	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-7
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-14	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	88. %	1		SM2540G	WG104216	01-FEB-12 11:03:15	ASTM D2216	31-JAN-12	AMB	

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P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:24
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 96.7

Lab ID: SF0503-10DL
Client ID: SMS-11
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	470	1.0	10	470
Chloromethane	U	470	1.0	10	470
Vinyl chloride	U	470	1.0	10	470
Bromomethane	U	470	1.0	10	470
Chloroethane	U	470	1.0	10	470
Trichlorofluoromethane	U	470	1.0	10	470
1,1-Dichloroethene	U	230	1.0	5	230
Methylene Chloride	U	1200	1.0	25	1200
trans-1,2-Dichloroethene	U	230	1.0	5	230
1,1-Dichloroethane	U	230	1.0	5	230
cis-1,2-Dichloroethene	U	230	1.0	5	230
1,2-Dichloroethylene (total)	U	470	1.0	10	470
2,2-Dichloropropane	U	230	1.0	5	230
Chloroform	U	230	1.0	5	230
Bromochloromethane	U	230	1.0	5	230
1,1,1-Trichloroethane	U	230	1.0	5	230
1,2-Dichloroethane	U	230	1.0	5	230
1,1-Dichloropropene	U	230	1.0	5	230
Carbon Tetrachloride	U	230	1.0	5	230
Benzene	U	230	1.0	5	230
1,2-Dichloropropane	U	230	1.0	5	230
Trichloroethene	U	230	1.0	5	230
Dibromomethane	U	230	1.0	5	230
Bromodichloromethane	U	230	1.0	5	230
cis-1,3-dichloropropene	U	230	1.0	5	230
Toluene	U	230	1.0	5	230
trans-1,3-Dichloropropene	U	230	1.0	5	230
1,1,2-Trichloroethane	U	230	1.0	5	230
1,3-Dichloropropane	U	230	1.0	5	230
Dibromochloromethane	U	230	1.0	5	230
Tetrachloroethene	U	230	1.0	5	230
1,2-Dibromoethane	U	230	1.0	5	230
Chlorobenzene	U	230	1.0	5	230
1,1,1,2-Tetrachloroethane	U	230	1.0	5	230
Ethylbenzene	U	230	1.0	5	230
Bromoform	U	230	1.0	5	230
Styrene	U	230	1.0	5	230
1,1,2,2-Tetrachloroethane	U	230	1.0	5	230
1,2,3-Trichloropropane	U	230	1.0	5	230
Isopropylbenzene	U	230	1.0	5	230
Bromobenzene	U	230	1.0	5	230
2-Chlorotoluene	U	230	1.0	5	230
N-Propylbenzene	U	230	1.0	5	230

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:24
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 96.7

Lab ID: SF0503-10DL
Client ID: SMS-11
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	230	1.0	5	230
1,3,5-Trimethylbenzene	U	230	1.0	5	230
tert-Butylbenzene	U	230	1.0	5	230
1,2,4-Trichlorobenzene	U	230	1.0	5	230
sec-Butylbenzene	U	230	1.0	5	230
1,3-Dichlorobenzene	U	230	1.0	5	230
P-Isopropyltoluene	U	230	1.0	5	230
1,4-Dichlorobenzene	U	230	1.0	5	230
1,2-Dichlorobenzene	U	230	1.0	5	230
N-Butylbenzene	U	230	1.0	5	230
1,2-Dibromo-3-Chloropropane	U	230	1.0	5	230
1,2,4-Trimethylbenzene	U	230	1.0	5	230
Naphthalene		5200	1.0	5	230
Hexachlorobutadiene	U	230	1.0	5	230
1,2,3-Trichlorobenzene	U	230	1.0	5	230
Methyl tert-butyl ether	U	230	1.0	5	230
Acetone	U	1200	1.0	25	1200
2-Butanone	U	1200	1.0	25	1200
4-methyl-2-pentanone	U	1200	1.0	25	1200
2-Hexanone	U	1200	1.0	25	1200
m+p-Xylenes	U	470	1.0	10	470
o-Xylene	U	230	1.0	5	230
Xylenes (total)	U	700	1.0	15	700
1,3,5-Trichlorobenzene	U	230	1.0	5	230
Vinyl Acetate	U	230	1.0	5	230
Carbon Disulfide	U	230	1.0	5	230
Diethyl Ether	U	230	1.0	5	230
Tetrahydrofuran	U	2300	1.0	50	2300
Dibromofluoromethane		114%			
1,2-Dichloroethane-D4		111%			
Toluene-D8		112%			
P-Bromofluorobenzene		108%			

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ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-11	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-10	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	97.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	2600	80	mg/Kgdrywt	2	07-FEB-12	
C9-C18 Aliphatics	250	80	mg/Kgdrywt	2	07-FEB-12	
C19-C36 Aliphatics	500	80	mg/Kgdrywt	2	07-FEB-12	
C11-C22 Aromatics	1900	80	mg/Kgdrywt	2	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	18	.8	mg/Kgdrywt	2	07-FEB-12	
2-Methylnaphthalene	19	.8	mg/Kgdrywt	2	07-FEB-12	
Phenanthrene	140	.8	mg/Kgdrywt	2	07-FEB-12	
Acenaphthylene	13	.8	mg/Kgdrywt	2	07-FEB-12	
Acenaphthene	7.5	.8	mg/Kgdrywt	2	07-FEB-12	
Anthracene	26	.8	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)anthracene	50	.8	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)pyrene	33	.8	mg/Kgdrywt	2	07-FEB-12	
Benzo(b)fluoranthene	29	.8	mg/Kgdrywt	2	07-FEB-12	
Benzo(g,h,i)perylene	20	.8	mg/Kgdrywt	2	07-FEB-12	
Benzo(k)fluoranthene	31	.8	mg/Kgdrywt	2	07-FEB-12	
Chrysene	39	.8	mg/Kgdrywt	2	07-FEB-12	
Dibenzo(a,h)anthracene	3.9	.8	mg/Kgdrywt	2	07-FEB-12	
Fluoranthene	90	.8	mg/Kgdrywt	2	07-FEB-12	
Fluorene	29	.8	mg/Kgdrywt	2	07-FEB-12	
Indeno(1,2,3-cd)pyrene	21	.8	mg/Kgdrywt	2	07-FEB-12	
Pyrene	100	.8	mg/Kgdrywt	2	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	93	40-140	07-FEB-12	
o-Terphenyl	124	40-140	07-FEB-12	
2-Fluorobiphenyl	124	40-140	07-FEB-12	
2-Bromonaphthalene	153	40-140	07-FEB-12	*

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-11	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-10	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	97.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	24	24	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	24	24	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	16	1.2	mg/Kgdrywt	1	07-FEB-12	
Toluene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.4	2.4	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	82	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	73	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-010
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-11	SL	96.7	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	9.10	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-10
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-11	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	97. %	1		SM2540G	WG104216	01-FEB-12 11:03:24	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:57
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 97.0

Lab ID: SF0503-11DL
Client ID: SMS-10
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	480	1.0	10	480
Chloromethane	U	480	1.0	10	480
Vinyl chloride	U	480	1.0	10	480
Bromomethane	U	480	1.0	10	480
Chloroethane	U	480	1.0	10	480
Trichlorofluoromethane	U	480	1.0	10	480
1,1-Dichloroethene	U	240	1.0	5	240
Methylene Chloride	U	1200	1.0	25	1200
trans-1,2-Dichloroethene	U	240	1.0	5	240
1,1-Dichloroethane	U	240	1.0	5	240
cis-1,2-Dichloroethene	U	240	1.0	5	240
1,2-Dichloroethylene (total)	U	480	1.0	10	480
2,2-Dichloropropane	U	240	1.0	5	240
Chloroform	U	240	1.0	5	240
Bromochloromethane	U	240	1.0	5	240
1,1,1-Trichloroethane	U	240	1.0	5	240
1,2-Dichloroethane	U	240	1.0	5	240
1,1-Dichloropropene	U	240	1.0	5	240
Carbon Tetrachloride	U	240	1.0	5	240
Benzene	U	240	1.0	5	240
1,2-Dichloropropane	U	240	1.0	5	240
Trichloroethene	U	240	1.0	5	240
Dibromomethane	U	240	1.0	5	240
Bromodichloromethane	U	240	1.0	5	240
cis-1,3-dichloropropene	U	240	1.0	5	240
Toluene	U	240	1.0	5	240
trans-1,3-Dichloropropene	U	240	1.0	5	240
1,1,2-Trichloroethane	U	240	1.0	5	240
1,3-Dichloropropane	U	240	1.0	5	240
Dibromochloromethane	U	240	1.0	5	240
Tetrachloroethene	U	240	1.0	5	240
1,2-Dibromoethane	U	240	1.0	5	240
Chlorobenzene	U	240	1.0	5	240
1,1,1,2-Tetrachloroethane	U	240	1.0	5	240
Ethylbenzene	U	240	1.0	5	240
Bromoform	U	240	1.0	5	240
Styrene	U	240	1.0	5	240
1,1,2,2-Tetrachloroethane	U	240	1.0	5	240
1,2,3-Trichloropropane	U	240	1.0	5	240
Isopropylbenzene	U	240	1.0	5	240
Bromobenzene	U	240	1.0	5	240
2-Chlorotoluene	U	240	1.0	5	240
N-Propylbenzene	U	240	1.0	5	240

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:57
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 97.0

Lab ID: SF0503-11DL
Client ID: SMS-10
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	240	1.0	5	240
1,3,5-Trimethylbenzene	U	240	1.0	5	240
tert-Butylbenzene	U	240	1.0	5	240
1,2,4-Trichlorobenzene	U	240	1.0	5	240
sec-Butylbenzene	U	240	1.0	5	240
1,3-Dichlorobenzene	U	240	1.0	5	240
P-Isopropyltoluene	U	240	1.0	5	240
1,4-Dichlorobenzene	U	240	1.0	5	240
1,2-Dichlorobenzene	U	240	1.0	5	240
N-Butylbenzene	U	240	1.0	5	240
1,2-Dibromo-3-Chloropropane	U	240	1.0	5	240
1,2,4-Trimethylbenzene	U	240	1.0	5	240
Naphthalene		3700	1.0	5	240
Hexachlorobutadiene	U	240	1.0	5	240
1,2,3-Trichlorobenzene	U	240	1.0	5	240
Methyl tert-butyl ether	U	240	1.0	5	240
Acetone	U	1200	1.0	25	1200
2-Butanone	U	1200	1.0	25	1200
4-methyl-2-pentanone	U	1200	1.0	25	1200
2-Hexanone	U	1200	1.0	25	1200
m+p-Xylenes	U	480	1.0	10	480
o-Xylene	U	240	1.0	5	240
Xylenes (total)	U	730	1.0	15	730
1,3,5-Trichlorobenzene	U	240	1.0	5	240
Vinyl Acetate	U	240	1.0	5	240
Carbon Disulfide	U	240	1.0	5	240
Diethyl Ether	U	240	1.0	5	240
Tetrahydrofuran	U	2400	1.0	50	2400
Dibromofluoromethane		112%			
1,2-Dichloroethane-D4		109%			
Toluene-D8		110%			
P-Bromofluorobenzene		106%			

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ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-10	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-11	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	97.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
C9-C18 Aliphatics	140	100	mg/Kgdrywt	1	07-FEB-12	
C19-C36 Aliphatics	480	100	mg/Kgdrywt	1	07-FEB-12	
Unadjusted C11-C22 Aromatics	6000	300	mg/Kgdrywt	3	07-FEB-12	
C11-C22 Aromatics	3800	300	mg/Kgdrywt	3	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	9.5	1	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	13	1	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	38	1	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	9.4	1	mg/Kgdrywt	1	07-FEB-12	
Anthracene	87	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	100	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	110	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	49	1	mg/Kgdrywt	1	07-FEB-12	
Benzo(k)fluoranthene	120	1	mg/Kgdrywt	1	07-FEB-12	
Chrysene	150	1	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	15	1	mg/Kgdrywt	1	07-FEB-12	
Fluorene	91	1	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	59	1	mg/Kgdrywt	1	07-FEB-12	
Phenanthrene	360	3	mg/Kgdrywt	3	07-FEB-12	
Benzo(a)anthracene	220	3	mg/Kgdrywt	3	07-FEB-12	
Fluoranthene	420	3	mg/Kgdrywt	3	07-FEB-12	
Pyrene	380	3	mg/Kgdrywt	3	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	60	40-140	07-FEB-12	
o-Terphenyl	110	40-140	07-FEB-12	
2-Fluorobiphenyl	65	40-140	07-FEB-12	
2-Bromonaphthalene	82	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-10	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-11	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	97.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	23	23	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	23	23	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	23	23	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	23	23	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	23	23	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	2.2	1.2	mg/Kgdrywt	1	07-FEB-12	
Toluene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.3	2.3	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	80	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	69	70-130	07-FEB-12	*

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-011
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-10	SL	97.0	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	20.0	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-11
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-10	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	97. %	1		SM2540G	WG104216	01-FEB-12 11:03:36	ASTM D2216	31-JAN-12	AMB	

200 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 12:50
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 91.1

Lab ID: SF0503-14DL
Client ID: SMS-7
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	45000	1.0	10	45000
Chloromethane	U	45000	1.0	10	45000
Vinyl chloride	U	45000	1.0	10	45000
Bromomethane	U	45000	1.0	10	45000
Chloroethane	U	45000	1.0	10	45000
Trichlorofluoromethane	U	45000	1.0	10	45000
1,1-Dichloroethene	U	23000	1.0	5	23000
Methylene Chloride	U	110000	1.0	25	110000
trans-1,2-Dichloroethene	U	23000	1.0	5	23000
1,1-Dichloroethane	U	23000	1.0	5	23000
cis-1,2-Dichloroethene	U	23000	1.0	5	23000
1,2-Dichloroethylene (total)	U	45000	1.0	10	45000
2,2-Dichloropropane	U	23000	1.0	5	23000
Chloroform	U	23000	1.0	5	23000
Bromochloromethane	U	23000	1.0	5	23000
1,1,1-Trichloroethane	U	23000	1.0	5	23000
1,2-Dichloroethane	U	23000	1.0	5	23000
1,1-Dichloropropene	U	23000	1.0	5	23000
Carbon Tetrachloride	U	23000	1.0	5	23000
Benzene	U	23000	1.0	5	23000
1,2-Dichloropropane	U	23000	1.0	5	23000
Trichloroethene	U	23000	1.0	5	23000
Dibromomethane	U	23000	1.0	5	23000
Bromodichloromethane	U	23000	1.0	5	23000
cis-1,3-dichloropropene	U	23000	1.0	5	23000
Toluene	U	23000	1.0	5	23000
trans-1,3-Dichloropropene	U	23000	1.0	5	23000
1,1,2-Trichloroethane	U	23000	1.0	5	23000
1,3-Dichloropropane	U	23000	1.0	5	23000
Dibromochloromethane	U	23000	1.0	5	23000
Tetrachloroethene	U	23000	1.0	5	23000
1,2-Dibromoethane	U	23000	1.0	5	23000
Chlorobenzene	U	23000	1.0	5	23000
1,1,1,2-Tetrachloroethane	U	23000	1.0	5	23000
Ethylbenzene	U	23000	1.0	5	23000
Bromoform	U	23000	1.0	5	23000
Styrene	U	23000	1.0	5	23000
1,1,2,2-Tetrachloroethane	U	23000	1.0	5	23000
1,2,3-Trichloropropane	U	23000	1.0	5	23000
Isopropylbenzene	U	23000	1.0	5	23000
Bromobenzene	U	23000	1.0	5	23000
2-Chlorotoluene	U	23000	1.0	5	23000
N-Propylbenzene	U	23000	1.0	5	23000

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 12:50
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 91.1

Lab ID: SF0503-14DL
Client ID: SMS-7
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	23000	1.0	5	23000
1,3,5-Trimethylbenzene	U	23000	1.0	5	23000
tert-Butylbenzene	U	23000	1.0	5	23000
1,2,4-Trichlorobenzene	U	23000	1.0	5	23000
sec-Butylbenzene	U	23000	1.0	5	23000
1,3-Dichlorobenzene	U	23000	1.0	5	23000
P-Isopropyltoluene	U	23000	1.0	5	23000
1,4-Dichlorobenzene	U	23000	1.0	5	23000
1,2-Dichlorobenzene	U	23000	1.0	5	23000
N-Butylbenzene	U	23000	1.0	5	23000
1,2-Dibromo-3-Chloropropane	U	23000	1.0	5	23000
1,2,4-Trimethylbenzene	U	23000	1.0	5	23000
Naphthalene	B	410000	1.0	5	23000
Hexachlorobutadiene	U	23000	1.0	5	23000
1,2,3-Trichlorobenzene	U	23000	1.0	5	23000
Methyl tert-butyl ether	U	23000	1.0	5	23000
Acetone	U	110000	1.0	25	110000
2-Butanone	U	110000	1.0	25	110000
4-methyl-2-pentanone	U	110000	1.0	25	110000
2-Hexanone	U	110000	1.0	25	110000
m+p-Xylenes	U	45000	1.0	10	45000
o-Xylene	U	23000	1.0	5	23000
Xylenes (total)	U	68000	1.0	15	68000
1,3,5-Trichlorobenzene	U	23000	1.0	5	23000
Vinyl Acetate	U	23000	1.0	5	23000
Carbon Disulfide	U	23000	1.0	5	23000
Diethyl Ether	U	23000	1.0	5	23000
Tetrahydrofuran	U	230000	1.0	50	230000
Dibromofluoromethane		101%			
1,2-Dichloroethane-D4		94%			
Toluene-D8		104%			
P-Bromofluorobenzene		96%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-7	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-14	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	91.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	1700	88	mg/Kgdrywt	2	07-FEB-12	
C9-C18 Aliphatics	90	88	mg/Kgdrywt	2	07-FEB-12	
C19-C36 Aliphatics	320	88	mg/Kgdrywt	2	07-FEB-12	
C11-C22 Aromatics	1200	88	mg/Kgdrywt	2	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	25	.88	mg/Kgdrywt	2	07-FEB-12	
2-Methylnaphthalene	12	.88	mg/Kgdrywt	2	07-FEB-12	
Phenanthrene	70	.88	mg/Kgdrywt	2	07-FEB-12	
Acenaphthylene	15	.88	mg/Kgdrywt	2	07-FEB-12	
Acenaphthene	3.0	.88	mg/Kgdrywt	2	07-FEB-12	
Anthracene	18	.88	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)anthracene	34	.88	mg/Kgdrywt	2	07-FEB-12	
Benzo(a)pyrene	33	.88	mg/Kgdrywt	2	07-FEB-12	
Benzo(b)fluoranthene	35	.88	mg/Kgdrywt	2	07-FEB-12	
Benzo(g,h,i)perylene	26	.88	mg/Kgdrywt	2	07-FEB-12	
Benzo(k)fluoranthene	26	.88	mg/Kgdrywt	2	07-FEB-12	
Chrysene	24	.88	mg/Kgdrywt	2	07-FEB-12	
Dibenzo(a,h)anthracene	5.0	.88	mg/Kgdrywt	2	07-FEB-12	
Fluoranthene	44	.88	mg/Kgdrywt	2	07-FEB-12	
Fluorene	20	.88	mg/Kgdrywt	2	07-FEB-12	
Indeno(1,2,3-cd)pyrene	28	.88	mg/Kgdrywt	2	07-FEB-12	
Pyrene	42	.88	mg/Kgdrywt	2	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	111	40-140	07-FEB-12	
o-Terphenyl	110	40-140	07-FEB-12	
2-Fluorobiphenyl	131	40-140	07-FEB-12	
2-Bromonaphthalene	157	40-140	07-FEB-12	*

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-7	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-14DL	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	91.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	640	640	mg/Kgdrywt	20	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	640	640	mg/Kgdrywt	20	07-FEB-12	U
C5-C8 Aliphatics	640	640	mg/Kgdrywt	20	07-FEB-12	U
C9-C12 Aliphatics	640	640	mg/Kgdrywt	20	07-FEB-12	U
C9-C10 Aromatics	640	640	mg/Kgdrywt	20	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	32	32	mg/Kgdrywt	20	07-FEB-12	U
Ethylbenzene	32	32	mg/Kgdrywt	20	07-FEB-12	U
Methyl tert-butylether	32	32	mg/Kgdrywt	20	07-FEB-12	U
Naphthalene	1300	32	mg/Kgdrywt	20	07-FEB-12	
Toluene	32	32	mg/Kgdrywt	20	07-FEB-12	U
m+p-Xylenes	64	64	mg/Kgdrywt	20	07-FEB-12	U
o-Xylene	32	32	mg/Kgdrywt	20	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	0	70-130	07-FEB-12	D
2,5-Dibromotoluene (PID)	0	70-130	07-FEB-12	D

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-014
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-7	SL	91.1	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	21.6	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-14
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-7	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	91. %	1		SM2540G	WG104216	01-FEB-12 11:03:45	ASTM D2216	31-JAN-12	AMB	

Katahdin Analytical Services SF0503 page 0000061 of 0000146

200 Technology Way
P.O. Box 540, Scarborough, ME 04070

http://katahdinlab.com
sales@katahdinlab.com

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 13:22
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 83.6

Lab ID: SF0503-15DL
Client ID: SMS-6
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	77000	1.0	10	77000
Chloromethane	U	77000	1.0	10	77000
Vinyl chloride	U	77000	1.0	10	77000
Bromomethane	U	77000	1.0	10	77000
Chloroethane	U	77000	1.0	10	77000
Trichlorofluoromethane	U	77000	1.0	10	77000
1,1-Dichloroethene	U	38000	1.0	5	38000
Methylene Chloride	U	190000	1.0	25	190000
trans-1,2-Dichloroethene	U	38000	1.0	5	38000
1,1-Dichloroethane	U	38000	1.0	5	38000
cis-1,2-Dichloroethene	U	38000	1.0	5	38000
1,2-Dichloroethylene (total)	U	77000	1.0	10	77000
2,2-Dichloropropane	U	38000	1.0	5	38000
Chloroform	U	38000	1.0	5	38000
Bromochloromethane	U	38000	1.0	5	38000
1,1,1-Trichloroethane	U	38000	1.0	5	38000
1,2-Dichloroethane	U	38000	1.0	5	38000
1,1-Dichloropropene	U	38000	1.0	5	38000
Carbon Tetrachloride	U	38000	1.0	5	38000
Benzene	U	38000	1.0	5	38000
1,2-Dichloropropane	U	38000	1.0	5	38000
Trichloroethene	U	38000	1.0	5	38000
Dibromomethane	U	38000	1.0	5	38000
Bromodichloromethane	U	38000	1.0	5	38000
cis-1,3-dichloropropene	U	38000	1.0	5	38000
Toluene	U	38000	1.0	5	38000
trans-1,3-Dichloropropene	U	38000	1.0	5	38000
1,1,2-Trichloroethane	U	38000	1.0	5	38000
1,3-Dichloropropane	U	38000	1.0	5	38000
Dibromochloromethane	U	38000	1.0	5	38000
Tetrachloroethene	U	38000	1.0	5	38000
1,2-Dibromoethane	U	38000	1.0	5	38000
Chlorobenzene	U	38000	1.0	5	38000
1,1,1,2-Tetrachloroethane	U	38000	1.0	5	38000
Ethylbenzene	U	38000	1.0	5	38000
Bromoform	U	38000	1.0	5	38000
Styrene	U	38000	1.0	5	38000
1,1,2,2-Tetrachloroethane	U	38000	1.0	5	38000
1,2,3-Trichloropropane	U	38000	1.0	5	38000
Isopropylbenzene	U	38000	1.0	5	38000
Bromobenzene	U	38000	1.0	5	38000
2-Chlorotoluene	U	38000	1.0	5	38000
N-Propylbenzene	U	38000	1.0	5	38000

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 13:22
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 83.6

Lab ID: SF0503-15DL
Client ID: SMS-6
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	38000	1.0	5	38000
1,3,5-Trimethylbenzene	U	38000	1.0	5	38000
tert-Butylbenzene	U	38000	1.0	5	38000
1,2,4-Trichlorobenzene	U	38000	1.0	5	38000
sec-Butylbenzene	U	38000	1.0	5	38000
1,3-Dichlorobenzene	U	38000	1.0	5	38000
P-Isopropyltoluene	U	38000	1.0	5	38000
1,4-Dichlorobenzene	U	38000	1.0	5	38000
1,2-Dichlorobenzene	U	38000	1.0	5	38000
N-Butylbenzene	U	38000	1.0	5	38000
1,2-Dibromo-3-Chloropropane	U	38000	1.0	5	38000
1,2,4-Trimethylbenzene	U	38000	1.0	5	38000
Naphthalene	B	750000	1.0	5	38000
Hexachlorobutadiene	U	38000	1.0	5	38000
1,2,3-Trichlorobenzene	U	38000	1.0	5	38000
Methyl tert-butyl ether	U	38000	1.0	5	38000
Acetone	U	190000	1.0	25	190000
2-Butanone	U	190000	1.0	25	190000
4-methyl-2-pentanone	U	190000	1.0	25	190000
2-Hexanone	U	190000	1.0	25	190000
m+p-Xylenes	U	77000	1.0	10	77000
o-Xylene	U	38000	1.0	5	38000
Xylenes (total)	U	120000	1.0	15	120000
1,3,5-Trichlorobenzene	U	38000	1.0	5	38000
Vinyl Acetate	U	38000	1.0	5	38000
Carbon Disulfide	U	38000	1.0	5	38000
Diethyl Ether	U	38000	1.0	5	38000
Tetrahydrofuran	U	380000	1.0	50	380000
Dibromofluoromethane		101%			
1,2-Dichloroethane-D4		96%			
Toluene-D8		106%			
P-Bromofluorobenzene		97%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-6	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-15	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	84.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C9-C18 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	22	22	mg/Kgdrywt	1	07-FEB-12	U
C11-C22 Aromatics	22.	22	mg/Kgdrywt	1	07-FEB-12	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.44	.22	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Phenanthrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthylene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Acenaphthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(a)pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(b)fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(g,h,i)perylene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Benzo(k)fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Chrysene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Dibenzo(a,h)anthracene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Fluoranthene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Fluorene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Indeno(1,2,3-cd)pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U
Pyrene	0.22	.22	mg/Kgdrywt	1	07-FEB-12	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	66	40-140	07-FEB-12	
o-Terphenyl	60	40-140	07-FEB-12	
2-Fluorobiphenyl	76	40-140	07-FEB-12	
2-Bromonaphthalene	80	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-6	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-15DL	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	84.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	93	93	mg/Kgdrywt	2	08-FEB-12	U
Unadjusted C9-C12 Aliphatics	400	93	mg/Kgdrywt	2	08-FEB-12	
C5-C8 Aliphatics	93	93	mg/Kgdrywt	2	08-FEB-12	U
C9-C12 Aliphatics	200	93	mg/Kgdrywt	2	08-FEB-12	
C9-C10 Aromatics	200	93	mg/Kgdrywt	2	08-FEB-12	

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	4.7	4.7	mg/Kgdrywt	2	08-FEB-12	U
Ethylbenzene	4.7	4.7	mg/Kgdrywt	2	08-FEB-12	U
Methyl tert-butylether	4.7	4.7	mg/Kgdrywt	2	08-FEB-12	U
Naphthalene	100	4.7	mg/Kgdrywt	2	08-FEB-12	
Toluene	4.7	4.7	mg/Kgdrywt	2	08-FEB-12	U
m+p-Xylenes	9.3	9.3	mg/Kgdrywt	2	08-FEB-12	U
o-Xylene	4.7	4.7	mg/Kgdrywt	2	08-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	122	70-130	08-FEB-12	
2,5-Dibromotoluene (PID)	90	70-130	08-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-015
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-6	SL	83.6	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	7.8	mg/Kgdrywt	1.	2	0.5	SW846 6010	2/6/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-15
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-6	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	84. %	1		SM2540G	WG104216	01-FEB-12 11:03:55	ASTM D2216	31-JAN-12	AMB	

200 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 13:55
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 96.5

Lab ID: SF0503-17DL
Client ID: SMS-4
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	6500	1.0	10	6500
Chloromethane	U	6500	1.0	10	6500
Vinyl chloride	U	6500	1.0	10	6500
Bromomethane	U	6500	1.0	10	6500
Chloroethane	U	6500	1.0	10	6500
Trichlorofluoromethane	U	6500	1.0	10	6500
1,1-Dichloroethene	U	3300	1.0	5	3300
Methylene Chloride	U	16000	1.0	25	16000
trans-1,2-Dichloroethene	U	3300	1.0	5	3300
1,1-Dichloroethane	U	3300	1.0	5	3300
cis-1,2-Dichloroethene	U	3300	1.0	5	3300
1,2-Dichloroethylene (total)	U	6500	1.0	10	6500
2,2-Dichloropropane	U	3300	1.0	5	3300
Chloroform	U	3300	1.0	5	3300
Bromochloromethane	U	3300	1.0	5	3300
1,1,1-Trichloroethane	U	3300	1.0	5	3300
1,2-Dichloroethane	U	3300	1.0	5	3300
1,1-Dichloropropene	U	3300	1.0	5	3300
Carbon Tetrachloride	U	3300	1.0	5	3300
Benzene	U	3300	1.0	5	3300
1,2-Dichloropropane	U	3300	1.0	5	3300
Trichloroethene	U	3300	1.0	5	3300
Dibromomethane	U	3300	1.0	5	3300
Bromodichloromethane	U	3300	1.0	5	3300
cis-1,3-dichloropropene	U	3300	1.0	5	3300
Toluene	U	3300	1.0	5	3300
trans-1,3-Dichloropropene	U	3300	1.0	5	3300
1,1,2-Trichloroethane	U	3300	1.0	5	3300
1,3-Dichloropropane	U	3300	1.0	5	3300
Dibromochloromethane	U	3300	1.0	5	3300
Tetrachloroethene	U	3300	1.0	5	3300
1,2-Dibromoethane	U	3300	1.0	5	3300
Chlorobenzene	U	3300	1.0	5	3300
1,1,1,2-Tetrachloroethane	U	3300	1.0	5	3300
Ethylbenzene	U	3300	1.0	5	3300
Bromoform	U	3300	1.0	5	3300
Styrene	U	3300	1.0	5	3300
1,1,2,2-Tetrachloroethane	U	3300	1.0	5	3300
1,2,3-Trichloropropane	U	3300	1.0	5	3300
Isopropylbenzene	U	3300	1.0	5	3300
Bromobenzene	U	3300	1.0	5	3300
2-Chlorotoluene	U	3300	1.0	5	3300
N-Propylbenzene	U	3300	1.0	5	3300

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/25/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 13:55
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 96.5

Lab ID: SF0503-17DL
Client ID: SMS-4
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	3300	1.0	5	3300
1,3,5-Trimethylbenzene	U	3300	1.0	5	3300
tert-Butylbenzene	U	3300	1.0	5	3300
1,2,4-Trichlorobenzene	U	3300	1.0	5	3300
sec-Butylbenzene	U	3300	1.0	5	3300
1,3-Dichlorobenzene	U	3300	1.0	5	3300
P-Isopropyltoluene	U	3300	1.0	5	3300
1,4-Dichlorobenzene	U	3300	1.0	5	3300
1,2-Dichlorobenzene	U	3300	1.0	5	3300
N-Butylbenzene	U	3300	1.0	5	3300
1,2-Dibromo-3-Chloropropane	U	3300	1.0	5	3300
1,2,4-Trimethylbenzene	U	3300	1.0	5	3300
Naphthalene	B	40000	1.0	5	3300
Hexachlorobutadiene	U	3300	1.0	5	3300
1,2,3-Trichlorobenzene	U	3300	1.0	5	3300
Methyl tert-butyl ether	U	3300	1.0	5	3300
Acetone	U	16000	1.0	25	16000
2-Butanone	U	16000	1.0	25	16000
4-methyl-2-pentanone	U	16000	1.0	25	16000
2-Hexanone	U	16000	1.0	25	16000
m+p-Xylenes	U	6500	1.0	10	6500
o-Xylene	U	3300	1.0	5	3300
Xylenes (total)	U	9800	1.0	15	9800
1,3,5-Trichlorobenzene	U	3300	1.0	5	3300
Vinyl Acetate	U	3300	1.0	5	3300
Carbon Disulfide	U	3300	1.0	5	3300
Diethyl Ether	U	3300	1.0	5	3300
Tetrahydrofuran	U	33000	1.0	50	33000
Dibromofluoromethane		103%			
1,2-Dichloroethane-D4		94%			
Toluene-D8		105%			
P-Bromofluorobenzene		95%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-4	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-17	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	96.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	230	18	mg/Kgdrywt	1	07-FEB-12	
C9-C18 Aliphatics	18	18	mg/Kgdrywt	1	07-FEB-12	U
C19-C36 Aliphatics	89	18	mg/Kgdrywt	1	07-FEB-12	
C11-C22 Aromatics	200	18	mg/Kgdrywt	1	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.88	.18	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	0.44	.18	mg/Kgdrywt	1	07-FEB-12	
Phenanthrene	4.4	.18	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	0.63	.18	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	0.18	.18	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	0.87	.18	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)anthracene	2.9	.18	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	2.1	.18	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	2.0	.18	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	1.4	.18	mg/Kgdrywt	1	07-FEB-12	
Benzo(k)fluoranthene	2.0	.18	mg/Kgdrywt	1	07-FEB-12	
Chrysene	2.3	.18	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	0.27	.18	mg/Kgdrywt	1	07-FEB-12	
Fluoranthene	4.5	.18	mg/Kgdrywt	1	07-FEB-12	
Fluorene	0.51	.18	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	1.4	.18	mg/Kgdrywt	1	07-FEB-12	
Pyrene	4.7	.18	mg/Kgdrywt	1	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	70	40-140	07-FEB-12	
o-Terphenyl	74	40-140	07-FEB-12	
2-Fluorobiphenyl	76	40-140	07-FEB-12	
2-Bromonaphthalene	85	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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ANALYTICAL SERVICES

Cert No E87604

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-4	**Date Collected:**	25-JAN-12
KAS Sample ID:	SF0503-17	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	96.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	42	42	mg/Kgdrywt	1	08-FEB-12	U
Unadjusted C9-C12 Aliphatics	160	42	mg/Kgdrywt	1	08-FEB-12	
C5-C8 Aliphatics	42	42	mg/Kgdrywt	1	08-FEB-12	U
C9-C12 Aliphatics	65.	42	mg/Kgdrywt	1	08-FEB-12	
C9-C10 Aromatics	91	42	mg/Kgdrywt	1	08-FEB-12	

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	2.1	2.1	mg/Kgdrywt	1	08-FEB-12	U
Ethylbenzene	2.1	2.1	mg/Kgdrywt	1	08-FEB-12	U
Methyl tert-butylether	2.1	2.1	mg/Kgdrywt	1	08-FEB-12	U
Naphthalene	36	2.1	mg/Kgdrywt	1	08-FEB-12	
Toluene	2.1	2.1	mg/Kgdrywt	1	08-FEB-12	U
m+p-Xylenes	4.2	4.2	mg/Kgdrywt	1	08-FEB-12	U
o-Xylene	2.1	2.1	mg/Kgdrywt	1	08-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	89	70-130	08-FEB-12	
2,5-Dibromotoluene (PID)	77	70-130	08-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-017
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-4	SL	96.5	01/25/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	5.4	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-17
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-4	SL	25-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	96. %	1		SM2540G	WG104216	01-FEB-12 11:04:05	ASTM D2216	31-JAN-12	AMB	

200 Technology Way
P.O. Box 540, Scarborough, ME 04070

http://katahdinlab.com
sales@katahdinlab.com

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 14:28
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 98.8

Lab ID: SF0503-18DL
Client ID: SMS-3
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	3100	1.0	10	3100
Chloromethane	U	3100	1.0	10	3100
Vinyl chloride	U	3100	1.0	10	3100
Bromomethane	U	3100	1.0	10	3100
Chloroethane	U	3100	1.0	10	3100
Trichlorofluoromethane	U	3100	1.0	10	3100
1,1-Dichloroethene	U	1500	1.0	5	1500
Methylene Chloride	U	7700	1.0	25	7700
trans-1,2-Dichloroethene	U	1500	1.0	5	1500
1,1-Dichloroethane	U	1500	1.0	5	1500
cis-1,2-Dichloroethene	U	1500	1.0	5	1500
1,2-Dichloroethylene (total)	U	3100	1.0	10	3100
2,2-Dichloropropane	U	1500	1.0	5	1500
Chloroform	U	1500	1.0	5	1500
Bromochloromethane	U	1500	1.0	5	1500
1,1,1-Trichloroethane	U	1500	1.0	5	1500
1,2-Dichloroethane	U	1500	1.0	5	1500
1,1-Dichloropropene	U	1500	1.0	5	1500
Carbon Tetrachloride	U	1500	1.0	5	1500
Benzene	U	1500	1.0	5	1500
1,2-Dichloropropane	U	1500	1.0	5	1500
Trichloroethene	U	1500	1.0	5	1500
Dibromomethane	U	1500	1.0	5	1500
Bromodichloromethane	U	1500	1.0	5	1500
cis-1,3-dichloropropene	U	1500	1.0	5	1500
Toluene	U	1500	1.0	5	1500
trans-1,3-Dichloropropene	U	1500	1.0	5	1500
1,1,2-Trichloroethane	U	1500	1.0	5	1500
1,3-Dichloropropane	U	1500	1.0	5	1500
Dibromochloromethane	U	1500	1.0	5	1500
Tetrachloroethene	U	1500	1.0	5	1500
1,2-Dibromoethane	U	1500	1.0	5	1500
Chlorobenzene	U	1500	1.0	5	1500
1,1,1,2-Tetrachloroethane	U	1500	1.0	5	1500
Ethylbenzene	U	1500	1.0	5	1500
Bromoform	U	1500	1.0	5	1500
Styrene	U	1500	1.0	5	1500
1,1,2,2-Tetrachloroethane	U	1500	1.0	5	1500
1,2,3-Trichloropropane	U	1500	1.0	5	1500
Isopropylbenzene	U	1500	1.0	5	1500
Bromobenzene	U	1500	1.0	5	1500
2-Chlorotoluene	U	1500	1.0	5	1500
N-Propylbenzene	U	1500	1.0	5	1500

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 14:28
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 98.8

Lab ID: SF0503-18DL
Client ID: SMS-3
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	1500	1.0	5	1500
1,3,5-Trimethylbenzene	U	1500	1.0	5	1500
tert-Butylbenzene	U	1500	1.0	5	1500
1,2,4-Trichlorobenzene	U	1500	1.0	5	1500
sec-Butylbenzene	U	1500	1.0	5	1500
1,3-Dichlorobenzene	U	1500	1.0	5	1500
P-Isopropyltoluene	U	1500	1.0	5	1500
1,4-Dichlorobenzene	U	1500	1.0	5	1500
1,2-Dichlorobenzene	U	1500	1.0	5	1500
N-Butylbenzene	U	1500	1.0	5	1500
1,2-Dibromo-3-Chloropropane	U	1500	1.0	5	1500
1,2,4-Trimethylbenzene	U	1500	1.0	5	1500
Naphthalene	B	34000	1.0	5	1500
Hexachlorobutadiene	U	1500	1.0	5	1500
1,2,3-Trichlorobenzene	U	1500	1.0	5	1500
Methyl tert-butyl ether	U	1500	1.0	5	1500
Acetone	U	7700	1.0	25	7700
2-Butanone	U	7700	1.0	25	7700
4-methyl-2-pentanone	U	7700	1.0	25	7700
2-Hexanone	U	7700	1.0	25	7700
m+p-Xylenes	U	3100	1.0	10	3100
o-Xylene	U	1500	1.0	5	1500
Xylenes (total)	U	4600	1.0	15	4600
1,3,5-Trichlorobenzene	U	1500	1.0	5	1500
Vinyl Acetate	U	1500	1.0	5	1500
Carbon Disulfide	U	1500	1.0	5	1500
Diethyl Ether	U	1500	1.0	5	1500
Tetrahydrofuran	U	15000	1.0	50	15000
Dibromofluoromethane		103%			
1,2-Dichloroethane-D4		97%			
Toluene-D8		104%			
P-Bromofluorobenzene		96%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-3	**Date Collected:**	26-JAN-12
KAS Sample ID:	SF0503-18	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	99.

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	2500	98	mg/Kgdrywt	1	07-FEB-12	
C9-C18 Aliphatics	570	98	mg/Kgdrywt	1	07-FEB-12	
C19-C36 Aliphatics	660	98	mg/Kgdrywt	1	07-FEB-12	
C11-C22 Aromatics	1900	98	mg/Kgdrywt	1	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	57	.98	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	46	.98	mg/Kgdrywt	1	07-FEB-12	
Phenanthrene	150	.98	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	15	.98	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	8.7	.98	mg/Kgdrywt	1	07-FEB-12	
Anthracene	20	.98	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)anthracene	34	.98	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	17	.98	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	16	.98	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	8.2	.98	mg/Kgdrywt	1	07-FEB-12	
Benzo(k)fluoranthene	17	.98	mg/Kgdrywt	1	07-FEB-12	
Chrysene	28	.98	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	2.0	.98	mg/Kgdrywt	1	07-FEB-12	
Fluoranthene	71	.98	mg/Kgdrywt	1	07-FEB-12	
Fluorene	24	.98	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	9.2	.98	mg/Kgdrywt	1	07-FEB-12	
Pyrene	74	.98	mg/Kgdrywt	1	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	63	40-140	07-FEB-12	
o-Terphenyl	82	40-140	07-FEB-12	
2-Fluorobiphenyl	70	40-140	07-FEB-12	
2-Bromonaphthalene	95	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-3	**Date Collected:**	26-JAN-12
KAS Sample ID:	SF0503-18DL	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	99.

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	130	130	mg/Kgdrywt	4	08-FEB-12	U
Unadjusted C9-C12 Aliphatics	130	130	mg/Kgdrywt	4	08-FEB-12	U
C5-C8 Aliphatics	130	130	mg/Kgdrywt	4	08-FEB-12	U
C9-C12 Aliphatics	130	130	mg/Kgdrywt	4	08-FEB-12	U
C9-C10 Aromatics	130	130	mg/Kgdrywt	4	08-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	6.6	6.6	mg/Kgdrywt	4	08-FEB-12	U
Ethylbenzene	6.6	6.6	mg/Kgdrywt	4	08-FEB-12	U
Methyl tert-butylether	6.6	6.6	mg/Kgdrywt	4	08-FEB-12	U
Naphthalene	240	6.6	mg/Kgdrywt	4	08-FEB-12	
Toluene	6.6	6.6	mg/Kgdrywt	4	08-FEB-12	U
m+p-Xylenes	13	13	mg/Kgdrywt	4	08-FEB-12	U
o-Xylene	6.6	6.6	mg/Kgdrywt	4	08-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	97	70-130	08-FEB-12	
2,5-Dibromotoluene (PID)	87	70-130	08-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-018
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-3	SL	98.8	01/26/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	8.72	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-18
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-3	SL	26-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	99. %	1		SM2540G	WG104216	01-FEB-12 11:04:15	ASTM D2216	31-JAN-12	AMB	

600 Technology Way
P.O. Box 540, Scarborough, ME 04070

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 15:01
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 99.7

Lab ID: SF0503-19DL
Client ID: SMS-2
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	1700	1.0	10	1700
Chloromethane	U	1700	1.0	10	1700
Vinyl chloride	U	1700	1.0	10	1700
Bromomethane	U	1700	1.0	10	1700
Chloroethane	U	1700	1.0	10	1700
Trichlorofluoromethane	U	1700	1.0	10	1700
1,1-Dichloroethene	U	870	1.0	5	870
Methylene Chloride	U	4300	1.0	25	4300
trans-1,2-Dichloroethene	U	870	1.0	5	870
1,1-Dichloroethane	U	870	1.0	5	870
cis-1,2-Dichloroethene	U	870	1.0	5	870
1,2-Dichloroethylene (total)	U	1700	1.0	10	1700
2,2-Dichloropropane	U	870	1.0	5	870
Chloroform	U	870	1.0	5	870
Bromochloromethane	U	870	1.0	5	870
1,1,1-Trichloroethane	U	870	1.0	5	870
1,2-Dichloroethane	U	870	1.0	5	870
1,1-Dichloropropene	U	870	1.0	5	870
Carbon Tetrachloride	U	870	1.0	5	870
Benzene	U	870	1.0	5	870
1,2-Dichloropropane	U	870	1.0	5	870
Trichloroethene	U	870	1.0	5	870
Dibromomethane	U	870	1.0	5	870
Bromodichloromethane	U	870	1.0	5	870
cis-1,3-dichloropropene	U	870	1.0	5	870
Toluene	U	870	1.0	5	870
trans-1,3-Dichloropropene	U	870	1.0	5	870
1,1,2-Trichloroethane	U	870	1.0	5	870
1,3-Dichloropropane	U	870	1.0	5	870
Dibromochloromethane	U	870	1.0	5	870
Tetrachloroethene	U	870	1.0	5	870
1,2-Dibromoethane	U	870	1.0	5	870
Chlorobenzene	U	870	1.0	5	870
1,1,1,2-Tetrachloroethane	U	870	1.0	5	870
Ethylbenzene	U	870	1.0	5	870
Bromoform	U	870	1.0	5	870
Styrene	U	870	1.0	5	870
1,1,2,2-Tetrachloroethane	U	870	1.0	5	870
1,2,3-Trichloropropane	U	870	1.0	5	870
Isopropylbenzene	U	870	1.0	5	870
Bromobenzene	U	870	1.0	5	870
2-Chlorotoluene	U	870	1.0	5	870
N-Propylbenzene	U	870	1.0	5	870

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main St.
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 02-FEB-2012 15:01
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 99.7

Lab ID: SF0503-19DL
Client ID: SMS-2
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	870	1.0	5	870
1,3,5-Trimethylbenzene	U	870	1.0	5	870
tert-Butylbenzene	U	870	1.0	5	870
1,2,4-Trichlorobenzene	U	870	1.0	5	870
sec-Butylbenzene	U	870	1.0	5	870
1,3-Dichlorobenzene	U	870	1.0	5	870
P-Isopropyltoluene	U	870	1.0	5	870
1,4-Dichlorobenzene	U	870	1.0	5	870
1,2-Dichlorobenzene	U	870	1.0	5	870
N-Butylbenzene	U	870	1.0	5	870
1,2-Dibromo-3-Chloropropane	U	870	1.0	5	870
1,2,4-Trimethylbenzene		1200	1.0	5	870
Naphthalene	B	31000	1.0	5	870
Hexachlorobutadiene	U	870	1.0	5	870
1,2,3-Trichlorobenzene	U	870	1.0	5	870
Methyl tert-butyl ether	U	870	1.0	5	870
Acetone	U	4300	1.0	25	4300
2-Butanone	U	4300	1.0	25	4300
4-methyl-2-pentanone	U	4300	1.0	25	4300
2-Hexanone	U	4300	1.0	25	4300
m+p-Xylenes	U	1700	1.0	10	1700
o-Xylene	U	870	1.0	5	870
Xylenes (total)	U	2600	1.0	15	2600
1,3,5-Trichlorobenzene	U	870	1.0	5	870
Vinyl Acetate	U	870	1.0	5	870
Carbon Disulfide	U	870	1.0	5	870
Diethyl Ether	U	870	1.0	5	870
Tetrahydrofuran	U	8700	1.0	50	8700
Dibromofluoromethane		101%			
1,2-Dichloroethane-D4		96%			
Toluene-D8		105%			
P-Bromofluorobenzene		100%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Extractable Petroleum Hydrocarbon (EPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-2	**Date Collected:**	26-JAN-12
KAS Sample ID:	SF0503-19	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	100

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	890	99	mg/Kgdrywt	1	07-FEB-12	
C9-C18 Aliphatics	160	99	mg/Kgdrywt	1	07-FEB-12	
C19-C36 Aliphatics	900	99	mg/Kgdrywt	1	07-FEB-12	
C11-C22 Aromatics	820	99	mg/Kgdrywt	1	07-FEB-12	

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	14	.99	mg/Kgdrywt	1	07-FEB-12	
2-Methylnaphthalene	7.9	.99	mg/Kgdrywt	1	07-FEB-12	
Phenanthrene	12	.99	mg/Kgdrywt	1	07-FEB-12	
Acenaphthylene	2.0	.99	mg/Kgdrywt	1	07-FEB-12	
Acenaphthene	0.99	.99	mg/Kgdrywt	1	07-FEB-12	U
Anthracene	1.9	.99	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)anthracene	2.2	.99	mg/Kgdrywt	1	07-FEB-12	
Benzo(a)pyrene	6.7	.99	mg/Kgdrywt	1	07-FEB-12	
Benzo(b)fluoranthene	1.2	.99	mg/Kgdrywt	1	07-FEB-12	
Benzo(g,h,i)perylene	0.99	.99	mg/Kgdrywt	1	07-FEB-12	U
Benzo(k)fluoranthene	1.3	.99	mg/Kgdrywt	1	07-FEB-12	
Chrysene	2.0	.99	mg/Kgdrywt	1	07-FEB-12	
Dibenzo(a,h)anthracene	0.99	.99	mg/Kgdrywt	1	07-FEB-12	U
Fluoranthene	3.1	.99	mg/Kgdrywt	1	07-FEB-12	
Fluorene	2.2	.99	mg/Kgdrywt	1	07-FEB-12	
Indeno(1,2,3-cd)pyrene	0.99	.99	mg/Kgdrywt	1	07-FEB-12	U
Pyrene	4.2	.99	mg/Kgdrywt	1	07-FEB-12	

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	41	40-140	07-FEB-12	
o-Terphenyl	43	40-140	07-FEB-12	
2-Fluorobiphenyl	47	40-140	07-FEB-12	
2-Bromonaphthalene	50	40-140	07-FEB-12	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Volatile Petroleum Hydrocarbon (VPH) Analysis

Client:	Woodard & Curran	**SDG:**	SF0503
Client Sample ID:	SMS-2	**Date Collected:**	26-JAN-12
KAS Sample ID:	SF0503-19DL	**Date Received:**	27-JAN-12
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	100

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	110	110	mg/Kgdrywt	4	08-FEB-12	U
Unadjusted C9-C12 Aliphatics	140	110	mg/Kgdrywt	4	08-FEB-12	
C5-C8 Aliphatics	110	110	mg/Kgdrywt	4	08-FEB-12	U
C9-C12 Aliphatics	140	110	mg/Kgdrywt	4	08-FEB-12	
C9-C10 Aromatics	110	110	mg/Kgdrywt	4	08-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	5.4	5.4	mg/Kgdrywt	4	08-FEB-12	U
Ethylbenzene	5.4	5.4	mg/Kgdrywt	4	08-FEB-12	U
Methyl tert-butylether	5.4	5.4	mg/Kgdrywt	4	08-FEB-12	U
Naphthalene	200	5.4	mg/Kgdrywt	4	08-FEB-12	
Toluene	5.4	5.4	mg/Kgdrywt	4	08-FEB-12	U
m+p-Xylenes	11	11	mg/Kgdrywt	4	08-FEB-12	U
o-Xylene	5.4	5.4	mg/Kgdrywt	4	08-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	95	70-130	08-FEB-12	
2,5-Dibromotoluene (PID)	77	70-130	08-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Katahdin ANALYTICAL SERVICES

REPORT OF ANALYTICAL RESULTS

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102

Lab Sample ID: SF0503-019
Report Date: 2/7/2012
PO No.: 203970.25
Project: Auburn-South Main St.

Sample Description	Matrix	Percent Solids(%)	Date Sampled	Date Received
SMS-2	SL	99.7	01/26/2012	01/27/2012

Parameter	Result	Units	Adjusted PQL	Dilution Factor	PQL	Analytical Method	Analysis Date	By	Prep Method	Prepped Date	By	QC	Notes
LEAD	6.9	mg/Kgdrywt	0.5	1	0.5	SW846 6010	2/1/12	EAM	SW846 3050	1/30/12	NAT	FA30ICS1	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-19
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
SMS-2	SL	26-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	100 %	1		SM2540G	WG104216	01-FEB-12 11:04:25	ASTM D2216	31-JAN-12	AMB	

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KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:29
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: SF0503-21
Client ID: TB-1
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	10	1.0	10	10
Chloromethane	U	10	1.0	10	10
Vinyl chloride	U	10	1.0	10	10
Bromomethane	U	10	1.0	10	10
Chloroethane	U	10	1.0	10	10
Trichlorofluoromethane	U	10	1.0	10	10
1,1-Dichloroethene	U	5	1.0	5	5
Methylene Chloride	U	25	1.0	25	25
trans-1,2-Dichloroethene	U	5	1.0	5	5
1,1-Dichloroethane	U	5	1.0	5	5
cis-1,2-Dichloroethene	U	5	1.0	5	5
1,2-Dichloroethylene (total)	U	10	1.0	10	10
2,2-Dichloropropane	U	5	1.0	5	5
Chloroform	U	5	1.0	5	5
Bromochloromethane	U	5	1.0	5	5
1,1,1-Trichloroethane	U	5	1.0	5	5
1,2-Dichloroethane	U	5	1.0	5	5
1,1-Dichloropropene	U	5	1.0	5	5
Carbon Tetrachloride	U	5	1.0	5	5
Benzene	U	5	1.0	5	5
1,2-Dichloropropane	U	5	1.0	5	5
Trichloroethene	U	5	1.0	5	5
Dibromomethane	U	5	1.0	5	5
Bromodichloromethane	U	5	1.0	5	5
cis-1,3-dichloropropene	U	5	1.0	5	5
Toluene	U	5	1.0	5	5
trans-1,3-Dichloropropene	U	5	1.0	5	5
1,1,2-Trichloroethane	U	5	1.0	5	5
1,3-Dichloropropane	U	5	1.0	5	5
Dibromochloromethane	U	5	1.0	5	5
Tetrachloroethene	U	5	1.0	5	5
1,2-Dibromoethane	U	5	1.0	5	5
Chlorobenzene	U	5	1.0	5	5
1,1,1,2-Tetrachloroethane	U	5	1.0	5	5
Ethylbenzene	U	5	1.0	5	5
Bromoform	U	5	1.0	5	5
Styrene	U	5	1.0	5	5
1,1,2,2-Tetrachloroethane	U	5	1.0	5	5
1,2,3-Trichloropropane	U	5	1.0	5	5
Isopropylbenzene	U	5	1.0	5	5
Bromobenzene	U	5	1.0	5	5
2-Chlorotoluene	U	5	1.0	5	5
N-Propylbenzene	U	5	1.0	5	5

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Woodard & Curran
Project: Auburn-South Main Street
PO No:
Sample Date: 01/26/12
Received Date: 01/27/12
Extraction Date:
Analysis Date: 31-JAN-2012 13:29
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: SF0503-21
Client ID: TB-1
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	5	1.0	5	5
1,3,5-Trimethylbenzene	U	5	1.0	5	5
tert-Butylbenzene	U	5	1.0	5	5
1,2,4-Trichlorobenzene	U	5	1.0	5	5
sec-Butylbenzene	U	5	1.0	5	5
1,3-Dichlorobenzene	U	5	1.0	5	5
P-Isopropyltoluene	U	5	1.0	5	5
1,4-Dichlorobenzene	U	5	1.0	5	5
1,2-Dichlorobenzene	U	5	1.0	5	5
N-Butylbenzene	U	5	1.0	5	5
1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5
1,2,4-Trimethylbenzene	U	5	1.0	5	5
Naphthalene	U	5	1.0	5	5
Hexachlorobutadiene	U	5	1.0	5	5
1,2,3-Trichlorobenzene	U	5	1.0	5	5
Methyl tert-butyl ether	U	5	1.0	5	5
Acetone	U	25	1.0	25	25
2-Butanone	U	25	1.0	25	25
4-methyl-2-pentanone	U	25	1.0	25	25
2-Hexanone	U	25	1.0	25	25
m+p-Xylenes	U	10	1.0	10	10
o-Xylene	U	5	1.0	5	5
Xylenes (total)	U	15	1.0	15	15
1,3,5-Trichlorobenzene	U	5	1.0	5	5
Vinyl Acetate	U	5	1.0	5	5
Carbon Disulfide	U	5	1.0	5	5
Diethyl Ether	U	5	1.0	5	5
Tetrahydrofuran	U	50	1.0	50	50
Dibromofluoromethane		79%			
1,2-Dichloroethane-D4		76%			
Toluene-D8		85%			
P-Bromofluorobenzene		80%			

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Karen Lambek
Woodard & Curran
41 Hutchins Drive
Portland,ME 04102

Lab Sample ID: SF0503-21
Report Date: 09-FEB-12
Client PO: 203970.25
Project: Auburn-South Main St.
SDG: SF0503

Sample Description	Matrix	Date Sampled	Date Received
TB-1	SL	26-JAN-12	27-JAN-12

Parameter	Result	Adj PQL	Adj MDL	Anal. Method	QC Batch	Analysis Date	Prep. Method	Prep. Date	Analyst	Footnotes
Total Solids	100 %	1		SM2540G	WG104307	03-FEB-12 12:51:48	ASTM D2216	02-FEB-12	RO	

Katahdin Analytical Services SF0503 page 0000088 of 0000146

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FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104204-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: T5127 Lab Sample ID: WG104204-2

Date Analyzed: 01/31/12 Time Analyzed: 1145

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-T

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104204-LCS	WG104204-1	T5124	01/31/12	0954
02	WG104204-MEOHBLANK	WG104204-3	T5128	01/31/12	1218
03	SMS-16	SF0503-5DL	T5129	01/31/12	1251
04	SMS-11	SF0503-10DL	T5130	01/31/12	1324
05	SMS-10	SF0503-11DL	T5131	01/31/12	1357
06					
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30					

COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104204-1
Client ID: WG104204-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	55	110	29-164
Chloromethane	50	NA	60	120	59-123
Vinyl chloride	50	NA	58	115	64-131
Bromomethane	50	NA	57	115	57-135
Chloroethane	50	NA	59	118	53-157
Trichlorofluoromethane	50	NA	52	104	70-149
Diethyl Ether	50	NA	53	106	78-124
Tertiary-butyl alcohol	250	NA	202	81	11-151
1,1-Dichloroethene	50	NA	54	107	88-127
Carbon Disulfide	50	NA	49	98	71-129
Freon-113	50	NA	55	110	73-126
Iodomethane	50	NA	47	94	54-155
Acrolein	250	NA	228	91	62-135
Methylene Chloride	50	NA	53	107	72-129
Acetone	50	NA	50	100	62-172
Isobutyl Alcohol	1000	NA	863	86	16-147
trans-1,2-Dichloroethene	50	NA	51	101	78-125
Allyl Chloride	50	NA	57	115	78-121
Methyl tert-butyl ether	100	NA	109	109	81-125
Acetonitrile	500	NA	515	103	61-125
Di-isopropyl ether	50	NA	57	114	81-123
Chloroprene	50	NA	57	115	75-128
Methacrylonitrile	500	NA	496	99	78-123
Propionitrile	500	NA	505	101	75-118
1,1-Dichloroethane	50	NA	54	107	76-130
Acrylonitrile	250	NA	243	97	76-120
Ethyl tertiary-butyl ether	50	NA	56	112	85-119
Vinyl Acetate	50	NA	46	91	56-129
cis-1,2-Dichloroethene	50	NA	53	106	85-123
1,2-Dichloroethylene (total)	100	NA	104	104	84-121
Methyl Methacrylate	50	NA	46	92	79-121
2,2-Dichloropropane	50	NA	56	112	70-132
Bromochloromethane	50	NA	59	117	85-117
Chloroform	50	NA	54	107	78-128
Carbon Tetrachloride	50	NA	52	104	87-126
Tetrahydrofuran	50	NA	46	93	74-123
1,1,1-Trichloroethane	50	NA	53	105	77-129
1,1-Dichloropropene	50	NA	53	105	87-118
2-Butanone	50	NA	48	97	71-132
Benzene	50	NA	52	103	86-116
Cyclohexane	50	NA	56	113	71-133
Ethyl Methacrylate	50	NA	46	92	80-125
Tertiary-amyl methyl ether	50	NA	55	110	80-121
1,2-Dichloroethane	50	NA	51	101	81-125
Trichloroethene	50	NA	52	105	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104204-1
Client ID: WG104204-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	52	104	85-117
1,2-Dichloropropane	50	NA	52	105	84-118
Bromodichloromethane	50	NA	54	107	85-122
cis-1,3-dichloropropene	50	NA	54	109	83-119
1,4-Dioxane	1000	NA	914	91	10-149
2-Chloroethylvinylether	50	NA	43	86	39-135
Toluene	50	NA	53	107	84-118
4-methyl-2-pentanone	50	NA	41	83	83-122
Tetrachloroethene	50	NA	48	97	47-155
trans-1,3-Dichloropropene	50	NA	53	106	85-135
1,1,2-Trichloroethane	50	NA	46	92	84-115
Dibromochloromethane	50	NA	52	104	85-119
1,3-Dichloropropane	50	NA	49	98	80-119
1,2-Dibromoethane	50	NA	49	98	84-116
2-Hexanone	50	NA	41	82	80-124
Chlorobenzene	50	NA	50	99	89-113
Ethylbenzene	50	NA	51	101	88-113
1,1,1,2-Tetrachloroethane	50	NA	51	102	88-118
Xylenes (total)	150	NA	159	106	89-116
m+p-Xylenes	100	NA	106	106	88-116
o-Xylene	50	NA	52	105	90-116
Styrene	50	NA	51	102	88-117
Bromoform	50	NA	49	99	86-117
Isopropylbenzene	50	NA	61	122	96-136
cis-1,4-Dichloro-2-Butene	50	NA	47	94	59-136
trans-1,4-Dichloro-2-Butene	50	NA	50	100	63-132
Bromobenzene	50	NA	50	100	84-113
N-Propylbenzene	50	NA	57	113	83-121
1,1,2,2-Tetrachloroethane	50	NA	44	88	79-121
1,3,5-Trimethylbenzene	50	NA	54	107	80-123
2-Chlorotoluene	50	NA	54	108	81-120
1,2,3-Trichloropropane	50	NA	45	90	77-120
4-Chlorotoluene	50	NA	54	108	81-122
tert-Butylbenzene	50	NA	60	119	84-121
Pentachloroethane	50	NA	55	110	19-186
1,2,4-Trimethylbenzene	50	NA	55	111	83-118
P-Isopropyltoluene	50	NA	50	100	88-121
1,3-Dichlorobenzene	50	NA	51	102	86-110
1,4-Dichlorobenzene	50	NA	48	96	86-111
N-Butylbenzene	50	NA	48	95	78-121
sec-Butylbenzene	50	NA	55	110	82-122
1,2-Dichlorobenzene	50	NA	50	100	86-112
1,2-Dibromo-3-Chloropropane	50	NA	39	78	67-124
1,3,5-Trichlorobenzene	50	NA	49	99	77-120
Hexachlorobutadiene	50	NA	39	78	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104204-1
Client ID: WG104204-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	38		76	76-126
1,2,3-Trimethylbenzene	50	NA	56		112	85-119
Naphthalene	50	NA	32		64	62-126
1,2,3-Trichlorobenzene	50	NA	30	*	60	70-122
Methyl Acetate	50	NA	52		103	70-132
Methylcyclohexane	50	NA	55		110	73-125
1-Chlorohexane	50	NA	48		95	73-119
Total Alkylbenzenes	350	NA	378		108	85-119

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 11:45
Report Date: 02/01/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104204-2
Client ID: WG104204-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	1	1.0	1	1
Chloromethane	U	1	1.0	1	1
Vinyl chloride	U	1	1.0	1	1
Bromomethane	U	1	1.0	1	1
Chloroethane	U	1	1.0	1	1
Trichlorofluoromethane	U	1	1.0	1	1
1,1-Dichloroethene	U	1	1.0	1	1
Methylene Chloride	U	5	1.0	5	5
trans-1,2-Dichloroethene	U	1	1.0	1	1
1,1-Dichloroethane	U	1	1.0	1	1
cis-1,2-Dichloroethene	U	1	1.0	1	1
1,2-Dichloroethylene (total)	U	2	1.0	2	2
2,2-Dichloropropane	U	1	1.0	1	1
Chloroform	U	1	1.0	1	1
Bromochloromethane	U	1	1.0	1	1
1,1,1-Trichloroethane	U	1	1.0	1	1
1,2-Dichloroethane	U	1	1.0	1	1
1,1-Dichloropropene	U	1	1.0	1	1
Carbon Tetrachloride	U	1	1.0	1	1
Benzene	U	1	1.0	1	1
1,2-Dichloropropane	U	1	1.0	1	1
Trichloroethene	U	1	1.0	1	1
Dibromomethane	U	1	1.0	1	1
Bromodichloromethane	U	1	1.0	1	1
cis-1,3-dichloropropene	U	1	1.0	1	1
Toluene	U	1	1.0	1	1
trans-1,3-Dichloropropene	U	1	1.0	1	1
1,1,2-Trichloroethane	U	1	1.0	1	1
1,3-Dichloropropane	U	1	1.0	1	1
Dibromochloromethane	U	1	1.0	1	1
Tetrachloroethene	U	1	1.0	1	1
1,2-Dibromoethane	U	1	1.0	1	1
Chlorobenzene	U	1	1.0	1	1
1,1,1,2-Tetrachloroethane	U	1	1.0	1	1
Ethylbenzene	U	1	1.0	1	1
Bromoform	U	1	1.0	1	1
Styrene	U	1	1.0	1	1
1,1,2,2-Tetrachloroethane	U	1	1.0	1	1
1,2,3-Trichloropropane	U	1	1.0	1	1
Isopropylbenzene	U	1	1.0	1	1
Bromobenzene	U	1	1.0	1	1
2-Chlorotoluene	U	1	1.0	1	1
N-Propylbenzene	U	1	1.0	1	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 11:45
Report Date: 02/01/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104204-2
Client ID: WG104204-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	1	1.0	1	1
1,3,5-Trimethylbenzene	U	1	1.0	1	1
tert-Butylbenzene	U	1	1.0	1	1
1,2,4-Trichlorobenzene	U	1	1.0	1	1
sec-Butylbenzene	U	1	1.0	1	1
1,3-Dichlorobenzene	U	1	1.0	1	1
P-Isopropyltoluene	U	1	1.0	1	1
1,4-Dichlorobenzene	U	1	1.0	1	1
1,2-Dichlorobenzene	U	1	1.0	1	1
N-Butylbenzene	U	1	1.0	1	1
1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1
1,2,4-Trimethylbenzene	U	1	1.0	1	1
Naphthalene	U	1	1.0	1	1
Hexachlorobutadiene	U	1	1.0	1	1
1,2,3-Trichlorobenzene	U	1	1.0	1	1
Methyl tert-butyl ether	U	1	1.0	1	1
Acetone	U	5	1.0	5	5
2-Butanone	U	5	1.0	5	5
4-methyl-2-pentanone	U	5	1.0	5	5
2-Hexanone	U	5	1.0	5	5
m+p-Xylenes	U	2	1.0	2	2
o-Xylene	U	1	1.0	1	1
Xylenes (total)	U	3	1.0	3	3
1,3,5-Trichlorobenzene	U	1	1.0	1	1
Vinyl Acetate	U	1	1.0	1	1
Carbon Disulfide	U	1	1.0	1	1
Diethyl Ether	U	1	1.0	1	1
Tetrahydrofuran	U	5	1.0	5	5
Dibromofluoromethane		121%			
1,2-Dichloroethane-D4		116%			
Toluene-D8		112%			
P-Bromofluorobenzene		96%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 12:18
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104204-3
Client ID: WG104204-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	500	1.0	10	500
Chloromethane	U	500	1.0	10	500
Vinyl chloride	U	500	1.0	10	500
Bromomethane	U	500	1.0	10	500
Chloroethane	U	500	1.0	10	500
Trichlorofluoromethane	U	500	1.0	10	500
1,1-Dichloroethene	U	250	1.0	5	250
Methylene Chloride	U	1200	1.0	25	1200
trans-1,2-Dichloroethene	U	250	1.0	5	250
1,1-Dichloroethane	U	250	1.0	5	250
cis-1,2-Dichloroethene	U	250	1.0	5	250
1,2-Dichloroethylene (total)	U	500	1.0	10	500
2,2-Dichloropropane	U	250	1.0	5	250
Chloroform	U	250	1.0	5	250
Bromochloromethane	U	250	1.0	5	250
1,1,1-Trichloroethane	U	250	1.0	5	250
1,2-Dichloroethane	U	250	1.0	5	250
1,1-Dichloropropene	U	250	1.0	5	250
Carbon Tetrachloride	U	250	1.0	5	250
Benzene	U	250	1.0	5	250
1,2-Dichloropropane	U	250	1.0	5	250
Trichloroethene	U	250	1.0	5	250
Dibromomethane	U	250	1.0	5	250
Bromodichloromethane	U	250	1.0	5	250
cis-1,3-dichloropropene	U	250	1.0	5	250
Toluene	U	250	1.0	5	250
trans-1,3-Dichloropropene	U	250	1.0	5	250
1,1,2-Trichloroethane	U	250	1.0	5	250
1,3-Dichloropropane	U	250	1.0	5	250
Dibromochloromethane	U	250	1.0	5	250
Tetrachloroethene		480	1.0	5	250
1,2-Dibromoethane	U	250	1.0	5	250
Chlorobenzene	U	250	1.0	5	250
1,1,1,2-Tetrachloroethane	U	250	1.0	5	250
Ethylbenzene	U	250	1.0	5	250
Bromoform	U	250	1.0	5	250
Styrene	U	250	1.0	5	250
1,1,2,2-Tetrachloroethane	U	250	1.0	5	250
1,2,3-Trichloropropane	U	250	1.0	5	250
Isopropylbenzene	U	250	1.0	5	250
Bromobenzene	U	250	1.0	5	250
2-Chlorotoluene	U	250	1.0	5	250
N-Propylbenzene	U	250	1.0	5	250

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 12:18
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104204-3
Client ID: WG104204-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: MMM
Analysis Method: SW846 8260B
Lab Prep Batch: WG104204
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	250	1.0	5	250
1,3,5-Trimethylbenzene	U	250	1.0	5	250
tert-Butylbenzene	U	250	1.0	5	250
1,2,4-Trichlorobenzene	U	250	1.0	5	250
sec-Butylbenzene	U	250	1.0	5	250
1,3-Dichlorobenzene	U	250	1.0	5	250
P-Isopropyltoluene	U	250	1.0	5	250
1,4-Dichlorobenzene	U	250	1.0	5	250
1,2-Dichlorobenzene	U	250	1.0	5	250
N-Butylbenzene	U	250	1.0	5	250
1,2-Dibromo-3-Chloropropane	U	250	1.0	5	250
1,2,4-Trimethylbenzene	U	250	1.0	5	250
Naphthalene	U	250	1.0	5	250
Hexachlorobutadiene	U	250	1.0	5	250
1,2,3-Trichlorobenzene	U	250	1.0	5	250
Methyl tert-butyl ether	U	250	1.0	5	250
Acetone	U	1200	1.0	25	1200
2-Butanone	U	1200	1.0	25	1200
4-methyl-2-pentanone	U	1200	1.0	25	1200
2-Hexanone	U	1200	1.0	25	1200
m+p-Xylenes	U	500	1.0	10	500
o-Xylene	U	250	1.0	5	250
Xylenes (total)	U	750	1.0	15	750
1,3,5-Trichlorobenzene	U	250	1.0	5	250
Vinyl Acetate	U	250	1.0	5	250
Carbon Disulfide	U	250	1.0	5	250
Diethyl Ether	U	250	1.0	5	250
Tetrahydrofuran	U	2500	1.0	50	2500
Dibromofluoromethane		119%			
1,2-Dichloroethane-D4		119%			
Toluene-D8		113%			
P-Bromofluorobenzene		102%			

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104210-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: M6445 Lab Sample ID: WG104210-2

Date Analyzed: 01/31/12 Time Analyzed: 1212

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104210-LCS	WG104210-1	M6442	01/31/12	1000
02	TB-1	SF0503-21	M6447	01/31/12	1329
03	SMS-19	SF0503-1	M6448	01/31/12	1408
04	SMS-17	SF0503-4	M6450	01/31/12	1525
05	SMS-15	SF0503-6	M6451	01/31/12	1604
06	SMS-14	SF0503-7	M6452	01/31/12	1642
07					
08					
09					
10					
11					
12					
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COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104210-1
Client ID: WG104210-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	36		73	45-167
Chloromethane	50	NA	52		103	69-127
Vinyl chloride	50	NA	47		93	73-134
Bromomethane	50	NA	46		91	64-136
Chloroethane	50	NA	38		75	71-127
Trichlorofluoromethane	50	NA	37		74	73-145
Diethyl Ether	50	NA	44		88	76-135
Tertiary-butyl alcohol	250	NA	261		104	62-148
1,1-Dichloroethene	50	NA	48		97	71-137
Carbon Disulfide	50	NA	40		80	69-138
Freon-113	50	NA	46		93	67-135
Iodomethane	50	NA	48		96	51-150
Acrolein	250	NA	217		87	48-175
Methylene Chloride	50	NA	48		95	56-152
Acetone	50	NA	67		134	76-213
Isobutyl Alcohol	1000	NA	1180		118	72-142
trans-1,2-Dichloroethene	50	NA	46		93	67-133
Allyl Chloride	50	NA	45		91	69-135
Methyl tert-butyl ether	100	NA	96		96	81-125
Acetonitrile	500	NA	427		85	63-143
Di-isopropyl ether	50	NA	54		107	68-131
Chloroprene	50	NA	50		101	67-130
Methacrylonitrile	500	NA	486		97	79-129
Propionitrile	500	NA	508		102	73-133
1,1-Dichloroethane	50	NA	47		95	75-126
Acrylonitrile	250	NA	259		104	69-139
Ethyl tertiary-butyl ether	50	NA	51		102	83-122
Vinyl Acetate	50	NA	47		94	77-119
cis-1,2-Dichloroethene	50	NA	47		94	82-123
1,2-Dichloroethylene (total)	100	NA	94		94	82-120
Methyl Methacrylate	50	NA	49		98	82-130
2,2-Dichloropropane	50	NA	42		83	78-124
Bromochloromethane	50	NA	46		92	84-115
Chloroform	50	NA	44		88	83-118
Carbon Tetrachloride	50	NA	42		85	78-124
Tetrahydrofuran	50	NA	53		105	78-137
1,1,1-Trichloroethane	50	NA	43		86	80-120
1,1-Dichloropropene	50	NA	47		95	81-119
2-Butanone	50	NA	55		110	78-148
Benzene	50	NA	49		97	82-113
Cyclohexane	50	NA	52		103	75-128
Ethyl Methacrylate	50	NA	49		98	78-128
Tertiary-amyl methyl ether	50	NA	52		104	80-123
1,2-Dichloroethane	50	NA	41	*	82	83-121
Trichloroethene	50	NA	46		92	83-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104210-1
Client ID: WG104210-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	45	91	85-118
1,2-Dichloropropane	50	NA	49	99	84-115
Bromodichloromethane	50	NA	44	88	82-118
cis-1,3-dichloropropene	50	NA	49	98	80-115
1,4-Dioxane	1000	NA	969	97	69-137
2-Chloroethylvinylether	50	NA	66	131	16-150
Toluene	50	NA	46	91	80-113
4-methyl-2-pentanone	50	NA	53	106	75-137
Tetrachloroethene	50	NA	49	99	73-122
trans-1,3-Dichloropropene	50	NA	54	109	87-136
1,1,2-Trichloroethane	50	NA	48	97	78-117
Dibromochloromethane	50	NA	49	98	80-120
1,3-Dichloropropane	50	NA	50	100	80-114
1,2-Dibromoethane	50	NA	43	86	81-119
2-Hexanone	50	NA	59	118	72-149
Chlorobenzene	50	NA	50	100	85-111
Ethylbenzene	50	NA	50	99	81-112
1,1,1,2-Tetrachloroethane	50	NA	50	100	83-114
Xylenes (total)	150	NA	146	97	81-114
m+p-Xylenes	100	NA	97	97	80-115
o-Xylene	50	NA	49	99	82-115
Styrene	50	NA	49	97	84-112
Bromoform	50	NA	50	100	76-126
Isopropylbenzene	50	NA	57	113	89-136
cis-1,4-Dichloro-2-Butene	50	NA	46	93	73-139
trans-1,4-Dichloro-2-Butene	50	NA	44	88	65-137
Bromobenzene	50	NA	49	97	78-118
N-Propylbenzene	50	NA	50	100	77-121
1,1,2,2-Tetrachloroethane	50	NA	53	105	78-122
1,3,5-Trimethylbenzene	50	NA	46	91	79-116
2-Chlorotoluene	50	NA	47	93	78-118
1,2,3-Trichloropropane	50	NA	50	101	81-118
4-Chlorotoluene	50	NA	49	97	77-121
tert-Butylbenzene	50	NA	48	96	79-118
Pentachloroethane	50	NA	48	95	78-127
1,2,4-Trimethylbenzene	50	NA	48	95	76-115
P-Isopropyltoluene	50	NA	51	102	80-124
1,3-Dichlorobenzene	50	NA	50	99	79-119
1,4-Dichlorobenzene	50	NA	50	99	80-117
N-Butylbenzene	50	NA	50	99	70-124
sec-Butylbenzene	50	NA	49	98	75-122
1,2-Dichlorobenzene	50	NA	49	98	76-118
1,2-Dibromo-3-Chloropropane	50	NA	48	95	66-132
1,3,5-Trichlorobenzene	50	NA	43	86	64-133
Hexachlorobutadiene	50	NA	46	91	27-154

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01/31/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104210-1
Client ID: WG104210-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	53	105	61-135
1,2,3-Trimethylbenzene	50	NA	43	87	82-116
Naphthalene	50	NA	54	109	51-131
1,2,3-Trichlorobenzene	50	NA	50	99	55-134
Methyl Acetate	50	NA	48	95	72-133
Methylcyclohexane	50	NA	51	102	71-127
1-Chlorohexane	50	NA	50	100	70-122
Total Alkylbenzenes	350	NA	341	97	79-118

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 12:12
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104210-2
Client ID: WG104210-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	5	1.0	5	5
Chloromethane	U	5	1.0	5	5
Vinyl chloride	U	5	1.0	5	5
Bromomethane	U	5	1.0	5	5
Chloroethane	U	5	1.0	5	5
Trichlorofluoromethane	U	5	1.0	5	5
1,1-Dichloroethene	U	5	1.0	5	5
Methylene Chloride	U	25	1.0	25	25
trans-1,2-Dichloroethene	U	5	1.0	5	5
1,1-Dichloroethane	U	5	1.0	5	5
cis-1,2-Dichloroethene	U	5	1.0	5	5
1,2-Dichloroethylene (total)	U	10	1.0	10	10
2,2-Dichloropropane	U	5	1.0	5	5
Chloroform	U	5	1.0	5	5
Bromochloromethane	U	5	1.0	5	5
1,1,1-Trichloroethane	U	5	1.0	5	5
1,2-Dichloroethane	U	5	1.0	5	5
1,1-Dichloropropene	U	5	1.0	5	5
Carbon Tetrachloride	U	5	1.0	5	5
Benzene	U	5	1.0	5	5
1,2-Dichloropropane	U	5	1.0	5	5
Trichloroethene	U	5	1.0	5	5
Dibromomethane	U	5	1.0	5	5
Bromodichloromethane	U	5	1.0	5	5
cis-1,3-dichloropropene	U	5	1.0	5	5
Toluene	U	5	1.0	5	5
trans-1,3-Dichloropropene	U	5	1.0	5	5
1,1,2-Trichloroethane	U	5	1.0	5	5
1,3-Dichloropropane	U	5	1.0	5	5
Dibromochloromethane	U	5	1.0	5	5
Tetrachloroethene	U	5	1.0	5	5
1,2-Dibromoethane	U	5	1.0	5	5
Chlorobenzene	U	5	1.0	5	5
1,1,1,2-Tetrachloroethane	U	5	1.0	5	5
Ethylbenzene	U	5	1.0	5	5
Bromoform	U	5	1.0	5	5
Styrene	U	5	1.0	5	5
1,1,2,2-Tetrachloroethane	U	5	1.0	5	5
1,2,3-Trichloropropane	U	5	1.0	5	5
Isopropylbenzene	U	5	1.0	5	5
Bromobenzene	U	5	1.0	5	5
2-Chlorotoluene	U	5	1.0	5	5
N-Propylbenzene	U	5	1.0	5	5

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 31-JAN-2012 12:12
Report Date: 02/01/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104210-2
Client ID: WG104210-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104210
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	5	1.0	5	5
1,3,5-Trimethylbenzene	U	5	1.0	5	5
tert-Butylbenzene	U	5	1.0	5	5
1,2,4-Trichlorobenzene	U	5	1.0	5	5
sec-Butylbenzene	U	5	1.0	5	5
1,3-Dichlorobenzene	U	5	1.0	5	5
P-Isopropyltoluene	U	5	1.0	5	5
1,4-Dichlorobenzene	U	5	1.0	5	5
1,2-Dichlorobenzene	U	5	1.0	5	5
N-Butylbenzene	U	5	1.0	5	5
1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5
1,2,4-Trimethylbenzene	U	5	1.0	5	5
Naphthalene	U	5	1.0	5	5
Hexachlorobutadiene	U	5	1.0	5	5
1,2,3-Trichlorobenzene	U	5	1.0	5	5
Methyl tert-butyl ether	U	5	1.0	5	5
Acetone	U	25	1.0	25	25
2-Butanone	U	25	1.0	25	25
4-methyl-2-pentanone	U	25	1.0	25	25
2-Hexanone	U	25	1.0	25	25
m+p-Xylenes	U	10	1.0	10	10
o-Xylene	U	5	1.0	5	5
Xylenes (total)	U	15	1.0	15	15
1,3,5-Trichlorobenzene	U	5	1.0	5	5
Vinyl Acetate	U	5	1.0	5	5
Carbon Disulfide	U	5	1.0	5	5
Diethyl Ether	U	5	1.0	5	5
Tetrahydrofuran	U	25	1.0	25	25
Dibromofluoromethane		90%			
1,2-Dichloroethane-D4		84%			
Toluene-D8		95%			
P-Bromofluorobenzene		90%			

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104251-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: T5157 Lab Sample ID: WG104251-2

Date Analyzed: 02/01/12 Time Analyzed: 1147

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-T

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104251-LCS	WG104251-1	T5154	02/01/12	0958
02	WG104251-MEOHBLANK	WG104251-4	T5159	02/01/12	1253
03	SMS-15	SF0503-6DL	T5168	02/01/12	1749
04					
05					
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07					
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COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104251-1
Client ID: WG104251-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	45	90	29-164
Chloromethane	50	NA	48	96	59-123
Vinyl chloride	50	NA	46	92	64-131
Bromomethane	50	NA	46	92	57-135
Chloroethane	50	NA	46	92	53-157
Trichlorofluoromethane	50	NA	42	85	70-149
Diethyl Ether	50	NA	50	100	78-124
Tertiary-butyl alcohol	250	NA	213	85	11-151
1,1-Dichloroethene	50	NA	50	101	88-127
Carbon Disulfide	50	NA	44	87	71-129
Freon-113	50	NA	50	101	73-126
Iodomethane	50	NA	50	100	54-155
Acrolein	250	NA	248	99	62-135
Methylene Chloride	50	NA	49	97	72-129
Acetone	50	NA	56	112	62-172
Isobutyl Alcohol	1000	NA	797	80	16-147
trans-1,2-Dichloroethene	50	NA	49	97	78-125
Allyl Chloride	50	NA	50	100	78-121
Methyl tert-butyl ether	100	NA	108	108	81-125
Acetonitrile	500	NA	456	91	61-125
Di-isopropyl ether	50	NA	52	103	81-123
Chloroprene	50	NA	50	100	75-128
Methacrylonitrile	500	NA	404	81	78-123
Propionitrile	500	NA	478	96	75-118
1,1-Dichloroethane	50	NA	47	94	76-130
Acrylonitrile	250	NA	230	92	76-120
Ethyl tertiary-butyl ether	50	NA	52	104	85-119
Vinyl Acetate	50	NA	44	87	56-129
cis-1,2-Dichloroethene	50	NA	50	99	85-123
1,2-Dichloroethylene (total)	100	NA	98	98	84-121
Methyl Methacrylate	50	NA	45	90	79-121
2,2-Dichloropropane	50	NA	51	102	70-132
Bromochloromethane	50	NA	58	115	85-117
Chloroform	50	NA	48	96	78-128
Carbon Tetrachloride	50	NA	49	98	87-126
Tetrahydrofuran	50	NA	48	96	74-123
1,1,1-Trichloroethane	50	NA	48	95	77-129
1,1-Dichloropropene	50	NA	48	97	87-118
2-Butanone	50	NA	52	105	71-132
Benzene	50	NA	48	96	86-116
Cyclohexane	50	NA	49	97	71-133
Ethyl Methacrylate	50	NA	46	93	80-125
Tertiary-amyl methyl ether	50	NA	52	104	80-121
1,2-Dichloroethane	50	NA	46	91	81-125
Trichloroethene	50	NA	47	95	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104251-1
Client ID: WG104251-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	51	101	85-117
1,2-Dichloropropane	50	NA	48	96	84-118
Bromodichloromethane	50	NA	49	99	85-122
cis-1,3-dichloropropene	50	NA	52	103	83-119
1,4-Dioxane	1000	NA	909	91	10-149
2-Chloroethylvinylether	50	NA	42	85	39-135
Toluene	50	NA	49	99	84-118
4-methyl-2-pentanone	50	NA	42	84	83-122
Tetrachloroethene	50	NA	48	96	47-155
trans-1,3-Dichloropropene	50	NA	50	100	85-135
1,1,2-Trichloroethane	50	NA	45	89	84-115
Dibromochloromethane	50	NA	52	103	85-119
1,3-Dichloropropane	50	NA	48	95	80-119
1,2-Dibromoethane	50	NA	50	100	84-116
2-Hexanone	50	NA	45	90	80-124
Chlorobenzene	50	NA	48	95	89-113
Ethylbenzene	50	NA	47	94	88-113
1,1,1,2-Tetrachloroethane	50	NA	50	99	88-118
Xylenes (total)	150	NA	149	99	89-116
m+p-Xylenes	100	NA	99	99	88-116
o-Xylene	50	NA	50	101	90-116
Styrene	50	NA	49	97	88-117
Bromoform	50	NA	51	102	86-117
Isopropylbenzene	50	NA	56	113	96-136
cis-1,4-Dichloro-2-Butene	50	NA	44	88	59-136
trans-1,4-Dichloro-2-Butene	50	NA	47	93	63-132
Bromobenzene	50	NA	50	100	84-113
N-Propylbenzene	50	NA	50	100	83-121
1,1,2,2-Tetrachloroethane	50	NA	43	85	79-121
1,3,5-Trimethylbenzene	50	NA	48	96	80-123
2-Chlorotoluene	50	NA	48	97	81-120
1,2,3-Trichloropropane	50	NA	45	89	77-120
4-Chlorotoluene	50	NA	49	97	81-122
tert-Butylbenzene	50	NA	55	109	84-121
Pentachloroethane	50	NA	51	101	19-186
1,2,4-Trimethylbenzene	50	NA	50	99	83-118
P-Isopropyltoluene	50	NA	45	89	88-121
1,3-Dichlorobenzene	50	NA	48	97	86-110
1,4-Dichlorobenzene	50	NA	46	92	86-111
N-Butylbenzene	50	NA	41	81	78-121
sec-Butylbenzene	50	NA	48	97	82-122
1,2-Dichlorobenzene	50	NA	48	95	86-112
1,2-Dibromo-3-Chloropropane	50	NA	34	69	67-124
1,3,5-Trichlorobenzene	50	NA	44	88	77-120
Hexachlorobutadiene	50	NA	38	75	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104251-1
Client ID: WG104251-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	33	*	65	76-126
1,2,3-Trimethylbenzene	50	NA	49		98	85-119
Naphthalene	50	NA	30	*	60	62-126
1,2,3-Trichlorobenzene	50	NA	23	*	46	70-122
Methyl Acetate	50	NA	51		103	70-132
Methylcyclohexane	50	NA	47		95	73-125
1-Chlorohexane	50	NA	44		89	73-119
Total Alkylbenzenes	350	NA	336		96	85-119

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 11:47
Report Date: 02/02/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104251-2
Client ID: WG104251-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	1	1.0	1	1
Chloromethane	U	1	1.0	1	1
Vinyl chloride	U	1	1.0	1	1
Bromomethane	U	1	1.0	1	1
Chloroethane	U	1	1.0	1	1
Trichlorofluoromethane	U	1	1.0	1	1
1,1-Dichloroethene	U	1	1.0	1	1
Methylene Chloride	U	5	1.0	5	5
trans-1,2-Dichloroethene	U	1	1.0	1	1
1,1-Dichloroethane	U	1	1.0	1	1
cis-1,2-Dichloroethene	U	1	1.0	1	1
1,2-Dichloroethylene (total)	U	2	1.0	2	2
2,2-Dichloropropane	U	1	1.0	1	1
Chloroform	U	1	1.0	1	1
Bromochloromethane	U	1	1.0	1	1
1,1,1-Trichloroethane	U	1	1.0	1	1
1,2-Dichloroethane	U	1	1.0	1	1
1,1-Dichloropropene	U	1	1.0	1	1
Carbon Tetrachloride	U	1	1.0	1	1
Benzene	U	1	1.0	1	1
1,2-Dichloropropane	U	1	1.0	1	1
Trichloroethene	U	1	1.0	1	1
Dibromomethane	U	1	1.0	1	1
Bromodichloromethane	U	1	1.0	1	1
cis-1,3-dichloropropene	U	1	1.0	1	1
Toluene	U	1	1.0	1	1
trans-1,3-Dichloropropene	U	1	1.0	1	1
1,1,2-Trichloroethane	U	1	1.0	1	1
1,3-Dichloropropane	U	1	1.0	1	1
Dibromochloromethane	U	1	1.0	1	1
Tetrachloroethene	U	1	1.0	1	1
1,2-Dibromoethane	U	1	1.0	1	1
Chlorobenzene	U	1	1.0	1	1
1,1,1,2-Tetrachloroethane	U	1	1.0	1	1
Ethylbenzene	U	1	1.0	1	1
Bromoform	U	1	1.0	1	1
Styrene	U	1	1.0	1	1
1,1,2,2-Tetrachloroethane	U	1	1.0	1	1
1,2,3-Trichloropropane	U	1	1.0	1	1
Isopropylbenzene	U	1	1.0	1	1
Bromobenzene	U	1	1.0	1	1
2-Chlorotoluene	U	1	1.0	1	1
N-Propylbenzene	U	1	1.0	1	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 11:47
Report Date: 02/02/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104251-2
Client ID: WG104251-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	1	1.0	1	1
1,3,5-Trimethylbenzene	U	1	1.0	1	1
tert-Butylbenzene	U	1	1.0	1	1
1,2,4-Trichlorobenzene	U	1	1.0	1	1
sec-Butylbenzene	U	1	1.0	1	1
1,3-Dichlorobenzene	U	1	1.0	1	1
P-Isopropyltoluene	U	1	1.0	1	1
1,4-Dichlorobenzene	U	1	1.0	1	1
1,2-Dichlorobenzene	U	1	1.0	1	1
N-Butylbenzene	U	1	1.0	1	1
1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1
1,2,4-Trimethylbenzene	U	1	1.0	1	1
Naphthalene		1	1.0	1	1
Hexachlorobutadiene	U	1	1.0	1	1
1,2,3-Trichlorobenzene	U	1	1.0	1	1
Methyl tert-butyl ether	U	1	1.0	1	1
Acetone	U	5	1.0	5	5
2-Butanone	U	5	1.0	5	5
4-methyl-2-pentanone	U	5	1.0	5	5
2-Hexanone	U	5	1.0	5	5
m+p-Xylenes	U	2	1.0	2	2
o-Xylene	U	1	1.0	1	1
Xylenes (total)	U	3	1.0	3	3
1,3,5-Trichlorobenzene	U	1	1.0	1	1
Vinyl Acetate	U	1	1.0	1	1
Carbon Disulfide	U	1	1.0	1	1
Diethyl Ether	U	1	1.0	1	1
Tetrahydrofuran	U	5	1.0	5	5
Dibromofluoromethane		105%			
1,2-Dichloroethane-D4		98%			
Toluene-D8		105%			
P-Bromofluorobenzene		96%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 12:53
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104251-4
Client ID: WG104251-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	500	1.0	10	500
Chloromethane	U	500	1.0	10	500
Vinyl chloride	U	500	1.0	10	500
Bromomethane	U	500	1.0	10	500
Chloroethane	U	500	1.0	10	500
Trichlorofluoromethane	U	500	1.0	10	500
1,1-Dichloroethene	U	250	1.0	5	250
Methylene Chloride	U	1200	1.0	25	1200
trans-1,2-Dichloroethene	U	250	1.0	5	250
1,1-Dichloroethane	U	250	1.0	5	250
cis-1,2-Dichloroethene	U	250	1.0	5	250
1,2-Dichloroethylene (total)	U	500	1.0	10	500
2,2-Dichloropropane	U	250	1.0	5	250
Chloroform	U	250	1.0	5	250
Bromochloromethane	U	250	1.0	5	250
1,1,1-Trichloroethane	U	250	1.0	5	250
1,2-Dichloroethane	U	250	1.0	5	250
1,1-Dichloropropene	U	250	1.0	5	250
Carbon Tetrachloride	U	250	1.0	5	250
Benzene	U	250	1.0	5	250
1,2-Dichloropropane	U	250	1.0	5	250
Trichloroethene	U	250	1.0	5	250
Dibromomethane	U	250	1.0	5	250
Bromodichloromethane	U	250	1.0	5	250
cis-1,3-dichloropropene	U	250	1.0	5	250
Toluene	U	250	1.0	5	250
trans-1,3-Dichloropropene	U	250	1.0	5	250
1,1,2-Trichloroethane	U	250	1.0	5	250
1,3-Dichloropropane	U	250	1.0	5	250
Dibromochloromethane	U	250	1.0	5	250
Tetrachloroethene		520	1.0	5	250
1,2-Dibromoethane	U	250	1.0	5	250
Chlorobenzene	U	250	1.0	5	250
1,1,1,2-Tetrachloroethane	U	250	1.0	5	250
Ethylbenzene	U	250	1.0	5	250
Bromoform	U	250	1.0	5	250
Styrene	U	250	1.0	5	250
1,1,2,2-Tetrachloroethane	U	250	1.0	5	250
1,2,3-Trichloropropane	U	250	1.0	5	250
Isopropylbenzene	U	250	1.0	5	250
Bromobenzene	U	250	1.0	5	250
2-Chlorotoluene	U	250	1.0	5	250
N-Propylbenzene	U	250	1.0	5	250

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 12:53
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104251-4
Client ID: WG104251-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104251
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	250	1.0	5	250
1,3,5-Trimethylbenzene	U	250	1.0	5	250
tert-Butylbenzene	U	250	1.0	5	250
1,2,4-Trichlorobenzene	U	250	1.0	5	250
sec-Butylbenzene	U	250	1.0	5	250
1,3-Dichlorobenzene	U	250	1.0	5	250
P-Isopropyltoluene	U	250	1.0	5	250
1,4-Dichlorobenzene	U	250	1.0	5	250
1,2-Dichlorobenzene	U	250	1.0	5	250
N-Butylbenzene	U	250	1.0	5	250
1,2-Dibromo-3-Chloropropane	U	250	1.0	5	250
1,2,4-Trimethylbenzene	U	250	1.0	5	250
Naphthalene	U	250	1.0	5	250
Hexachlorobutadiene	U	250	1.0	5	250
1,2,3-Trichlorobenzene	U	250	1.0	5	250
Methyl tert-butyl ether	U	250	1.0	5	250
Acetone	U	1200	1.0	25	1200
2-Butanone	U	1200	1.0	25	1200
4-methyl-2-pentanone	U	1200	1.0	25	1200
2-Hexanone	U	1200	1.0	25	1200
m+p-Xylenes	U	500	1.0	10	500
o-Xylene	U	250	1.0	5	250
Xylenes (total)	U	750	1.0	15	750
1,3,5-Trichlorobenzene	U	250	1.0	5	250
Vinyl Acetate	U	250	1.0	5	250
Carbon Disulfide	U	250	1.0	5	250
Diethyl Ether	U	250	1.0	5	250
Tetrahydrofuran	U	2500	1.0	50	2500
Dibromofluoromethane		107%			
1,2-Dichloroethane-D4		101%			
Toluene-D8		108%			
P-Bromofluorobenzene		99%			

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104253-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: M6465 Lab Sample ID: WG104253-2

Date Analyzed: 02/01/12 Time Analyzed: 1158

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) Y

Instrument ID: GCMS-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104253-LCS	WG104253-1	M6462	02/01/12	0954
02	SMS-18	SF0503-3RA	M6466	02/01/12	1237
03					
04					
05					
06					
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30					

COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104253-1
Client ID: WG104253-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	35		70	45-167
Chloromethane	50	NA	46		93	69-127
Vinyl chloride	50	NA	44		88	73-134
Bromomethane	50	NA	44		87	64-136
Chloroethane	50	NA	37		74	71-127
Trichlorofluoromethane	50	NA	36	*	71	73-145
Diethyl Ether	50	NA	44		87	76-135
Tertiary-butyl alcohol	250	NA	252		101	62-148
1,1-Dichloroethene	50	NA	45		91	71-137
Carbon Disulfide	50	NA	38		75	69-138
Freon-113	50	NA	43		87	67-135
Iodomethane	50	NA	44		88	51-150
Acrolein	250	NA	202		81	48-175
Methylene Chloride	50	NA	43		85	56-152
Acetone	50	NA	69		137	76-213
Isobutyl Alcohol	1000	NA	1090		109	72-142
trans-1,2-Dichloroethene	50	NA	44		87	67-133
Allyl Chloride	50	NA	42		83	69-135
Methyl tert-butyl ether	100	NA	95		95	81-125
Acetonitrile	500	NA	396		79	63-143
Di-isopropyl ether	50	NA	50		100	68-131
Chloroprene	50	NA	47		95	67-130
Methacrylonitrile	500	NA	468		94	79-129
Propionitrile	500	NA	477		95	73-133
1,1-Dichloroethane	50	NA	45		90	75-126
Acrylonitrile	250	NA	250		100	69-139
Ethyl tertiary-butyl ether	50	NA	49		98	83-122
Vinyl Acetate	50	NA	46		92	77-119
cis-1,2-Dichloroethene	50	NA	46		91	82-123
1,2-Dichloroethylene (total)	100	NA	89		89	82-120
Methyl Methacrylate	50	NA	46		91	82-130
2,2-Dichloropropane	50	NA	41		82	78-124
Bromochloromethane	50	NA	45		91	84-115
Chloroform	50	NA	42		85	83-118
Carbon Tetrachloride	50	NA	42		83	78-124
Tetrahydrofuran	50	NA	52		103	78-137
1,1,1-Trichloroethane	50	NA	41		83	80-120
1,1-Dichloropropene	50	NA	46		93	81-119
2-Butanone	50	NA	55		110	78-148
Benzene	50	NA	47		95	82-113
Cyclohexane	50	NA	53		107	75-128
Ethyl Methacrylate	50	NA	47		94	78-128
Tertiary-amyl methyl ether	50	NA	51		103	80-123
1,2-Dichloroethane	50	NA	40	*	79	83-121
Trichloroethene	50	NA	44		88	83-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104253-1
Client ID: WG104253-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.	%REC.	QC. LIMITS
Dibromomethane	50	NA	44	87	85-118
1,2-Dichloropropane	50	NA	48	97	84-115
Bromodichloromethane	50	NA	43	86	82-118
cis-1,3-dichloropropene	50	NA	48	96	80-115
1,4-Dioxane	1000	NA	933	93	69-137
2-Chloroethylvinylether	50	NA	62	124	16-150
Toluene	50	NA	45	90	80-113
4-methyl-2-pentanone	50	NA	51	103	75-137
Tetrachloroethene	50	NA	46	91	73-122
trans-1,3-Dichloropropene	50	NA	52	105	87-136
1,1,2-Trichloroethane	50	NA	47	94	78-117
Dibromochloromethane	50	NA	46	92	80-120
1,3-Dichloropropane	50	NA	48	96	80-114
1,2-Dibromoethane	50	NA	43	85	81-119
2-Hexanone	50	NA	56	112	72-149
Chlorobenzene	50	NA	46	92	85-111
Ethylbenzene	50	NA	46	91	81-112
1,1,1,2-Tetrachloroethane	50	NA	46	92	83-114
Xylenes (total)	150	NA	134	89	81-114
m+p-Xylenes	100	NA	90	90	80-115
o-Xylene	50	NA	45	90	82-115
Styrene	50	NA	45	90	84-112
Bromoform	50	NA	47	94	76-126
Isopropylbenzene	50	NA	52	105	89-136
cis-1,4-Dichloro-2-Butene	50	NA	44	87	73-139
trans-1,4-Dichloro-2-Butene	50	NA	39	78	65-137
Bromobenzene	50	NA	45	90	78-118
N-Propylbenzene	50	NA	45	90	77-121
1,1,2,2-Tetrachloroethane	50	NA	50	99	78-122
1,3,5-Trimethylbenzene	50	NA	42	84	79-116
2-Chlorotoluene	50	NA	44	87	78-118
1,2,3-Trichloropropane	50	NA	48	96	81-118
4-Chlorotoluene	50	NA	45	90	77-121
tert-Butylbenzene	50	NA	44	89	79-118
Pentachloroethane	50	NA	45	90	78-127
1,2,4-Trimethylbenzene	50	NA	44	87	76-115
P-Isopropyltoluene	50	NA	47	94	80-124
1,3-Dichlorobenzene	50	NA	45	91	79-119
1,4-Dichlorobenzene	50	NA	46	92	80-117
N-Butylbenzene	50	NA	45	90	70-124
sec-Butylbenzene	50	NA	45	91	75-122
1,2-Dichlorobenzene	50	NA	45	91	76-118
1,2-Dibromo-3-Chloropropane	50	NA	36	72	66-132
1,3,5-Trichlorobenzene	50	NA	39	78	64-133
Hexachlorobutadiene	50	NA	41	83	27-154

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/01/12
Report Date: 02/07/2012
Matrix: SOIL

Lab ID: WG104253-1
Client ID: WG104253-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	47		95	61-135
1,2,3-Trimethylbenzene	50	NA	40	*	81	82-116
Naphthalene	50	NA	46		91	51-131
1,2,3-Trichlorobenzene	50	NA	45		90	55-134
Methyl Acetate	50	NA	45		89	72-133
Methylcyclohexane	50	NA	48		96	71-127
1-Chlorohexane	50	NA	48		95	70-122
Total Alkylbenzenes	350	NA	313		89	79-118

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 11:58
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104253-2
Client ID: WG104253-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	5	1.0	5	5
Chloromethane	U	5	1.0	5	5
Vinyl chloride	U	5	1.0	5	5
Bromomethane	U	5	1.0	5	5
Chloroethane	U	5	1.0	5	5
Trichlorofluoromethane	U	5	1.0	5	5
1,1-Dichloroethene	U	5	1.0	5	5
Methylene Chloride	U	25	1.0	25	25
trans-1,2-Dichloroethene	U	5	1.0	5	5
1,1-Dichloroethane	U	5	1.0	5	5
cis-1,2-Dichloroethene	U	5	1.0	5	5
1,2-Dichloroethylene (total)	U	10	1.0	10	10
2,2-Dichloropropane	U	5	1.0	5	5
Chloroform	U	5	1.0	5	5
Bromochloromethane	U	5	1.0	5	5
1,1,1-Trichloroethane	U	5	1.0	5	5
1,2-Dichloroethane	U	5	1.0	5	5
1,1-Dichloropropene	U	5	1.0	5	5
Carbon Tetrachloride	U	5	1.0	5	5
Benzene	U	5	1.0	5	5
1,2-Dichloropropane	U	5	1.0	5	5
Trichloroethene	U	5	1.0	5	5
Dibromomethane	U	5	1.0	5	5
Bromodichloromethane	U	5	1.0	5	5
cis-1,3-dichloropropene	U	5	1.0	5	5
Toluene	U	5	1.0	5	5
trans-1,3-Dichloropropene	U	5	1.0	5	5
1,1,2-Trichloroethane	U	5	1.0	5	5
1,3-Dichloropropane	U	5	1.0	5	5
Dibromochloromethane	U	5	1.0	5	5
Tetrachloroethene	U	5	1.0	5	5
1,2-Dibromoethane	U	5	1.0	5	5
Chlorobenzene	U	5	1.0	5	5
1,1,1,2-Tetrachloroethane	U	5	1.0	5	5
Ethylbenzene	U	5	1.0	5	5
Bromoform	U	5	1.0	5	5
Styrene	U	5	1.0	5	5
1,1,2,2-Tetrachloroethane	U	5	1.0	5	5
1,2,3-Trichloropropane	U	5	1.0	5	5
Isopropylbenzene	U	5	1.0	5	5
Bromobenzene	U	5	1.0	5	5
2-Chlorotoluene	U	5	1.0	5	5
N-Propylbenzene	U	5	1.0	5	5

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main Street
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 01-FEB-2012 11:58
Report Date: 02/02/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104253-2
Client ID: WG104253-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5035
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104253
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	5	1.0	5	5
1,3,5-Trimethylbenzene	U	5	1.0	5	5
tert-Butylbenzene	U	5	1.0	5	5
1,2,4-Trichlorobenzene	U	5	1.0	5	5
sec-Butylbenzene	U	5	1.0	5	5
1,3-Dichlorobenzene	U	5	1.0	5	5
P-Isopropyltoluene	U	5	1.0	5	5
1,4-Dichlorobenzene	U	5	1.0	5	5
1,2-Dichlorobenzene	U	5	1.0	5	5
N-Butylbenzene	U	5	1.0	5	5
1,2-Dibromo-3-Chloropropane	U	5	1.0	5	5
1,2,4-Trimethylbenzene	U	5	1.0	5	5
Naphthalene	U	5	1.0	5	5
Hexachlorobutadiene	U	5	1.0	5	5
1,2,3-Trichlorobenzene	U	5	1.0	5	5
Methyl tert-butyl ether	U	5	1.0	5	5
Acetone	U	25	1.0	25	25
2-Butanone	U	25	1.0	25	25
4-methyl-2-pentanone	U	25	1.0	25	25
2-Hexanone	U	25	1.0	25	25
m+p-Xylenes	U	10	1.0	10	10
o-Xylene	U	5	1.0	5	5
Xylenes (total)	U	15	1.0	15	15
1,3,5-Trichlorobenzene	U	5	1.0	5	5
Vinyl Acetate	U	5	1.0	5	5
Carbon Disulfide	U	5	1.0	5	5
Diethyl Ether	U	5	1.0	5	5
Tetrahydrofuran	U	25	1.0	25	25
Dibromofluoromethane		91%			
1,2-Dichloroethane-D4		87%			
Toluene-D8		98%			
P-Bromofluorobenzene		92%			

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104315-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: T5181 Lab Sample ID: WG104315-2

Date Analyzed: 02/02/12 Time Analyzed: 1133

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS-T

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104315-LCS	WG104315-1	T5178	02/02/12	0942
02	WG104315-MEOHBLANK	WG104315-3	T5182	02/02/12	1205
03	SMS-7	SF0503-14DL	T5183	02/02/12	1250
04	SMS-6	SF0503-15DL	T5184	02/02/12	1322
05	SMS-4	SF0503-17DL	T5185	02/02/12	1355
06	SMS-3	SF0503-18DL	T5186	02/02/12	1428
07	SMS-2	SF0503-19DL	T5187	02/02/12	1501
08					
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10					
11					
12					
13					
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30					

COMMENTS:

FORM IVVOA

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/02/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104315-1
Client ID: WG104315-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dichlorodifluoromethane	50	NA	45		90	29-164
Chloromethane	50	NA	49		97	59-123
Vinyl chloride	50	NA	46		93	64-131
Bromomethane	50	NA	47		94	57-135
Chloroethane	50	NA	47		94	53-157
Trichlorofluoromethane	50	NA	43		87	70-149
Diethyl Ether	50	NA	48		96	78-124
Tertiary-butyl alcohol	250	NA	182		73	11-151
1,1-Dichloroethene	50	NA	51		102	88-127
Carbon Disulfide	50	NA	44		89	71-129
Freon-113	50	NA	52		104	73-126
Iodomethane	50	NA	52		104	54-155
Acrolein	250	NA	196		78	62-135
Methylene Chloride	50	NA	50		99	72-129
Acetone	50	NA	44		88	62-172
Isobutyl Alcohol	1000	NA	646		65	16-147
trans-1,2-Dichloroethene	50	NA	49		98	78-125
Allyl Chloride	50	NA	51		102	78-121
Methyl tert-butyl ether	100	NA	104		104	81-125
Acetonitrile	500	NA	404		81	61-125
Di-isopropyl ether	50	NA	51		102	81-123
Chloroprene	50	NA	51		102	75-128
Methacrylonitrile	500	NA	374	*	75	78-123
Propionitrile	500	NA	426		85	75-118
1,1-Dichloroethane	50	NA	48		95	76-130
Acrylonitrile	250	NA	213		85	76-120
Ethyl tertiary-butyl ether	50	NA	52		103	85-119
Vinyl Acetate	50	NA	43		86	56-129
cis-1,2-Dichloroethene	50	NA	50		101	85-123
1,2-Dichloroethylene (total)	100	NA	100		100	84-121
Methyl Methacrylate	50	NA	44		88	79-121
2,2-Dichloropropane	50	NA	52		105	70-132
Bromochloromethane	50	NA	56		113	85-117
Chloroform	50	NA	48		96	78-128
Carbon Tetrachloride	50	NA	51		102	87-126
Tetrahydrofuran	50	NA	45		90	74-123
1,1,1-Trichloroethane	50	NA	48		96	77-129
1,1-Dichloropropene	50	NA	50		101	87-118
2-Butanone	50	NA	45		90	71-132
Benzene	50	NA	50		99	86-116
Cyclohexane	50	NA	48		95	71-133
Ethyl Methacrylate	50	NA	46		92	80-125
Tertiary-amyl methyl ether	50	NA	52		103	80-121
1,2-Dichloroethane	50	NA	46		92	81-125
Trichloroethene	50	NA	50		101	79-121

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/02/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104315-1
Client ID: WG104315-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
Dibromomethane	50	NA	50		100	85-117
1,2-Dichloropropane	50	NA	50		99	84-118
Bromodichloromethane	50	NA	51		101	85-122
cis-1,3-dichloropropene	50	NA	53		106	83-119
1,4-Dioxane	1000	NA	710		71	10-149
2-Chloroethylvinylether	50	NA	42		84	39-135
Toluene	50	NA	52		103	84-118
4-methyl-2-pentanone	50	NA	41	*	81	83-122
Tetrachloroethene	50	NA	49		98	47-155
trans-1,3-Dichloropropene	50	NA	50		101	85-135
1,1,2-Trichloroethane	50	NA	44		88	84-115
Dibromochloromethane	50	NA	52		104	85-119
1,3-Dichloropropane	50	NA	48		95	80-119
1,2-Dibromoethane	50	NA	49		99	84-116
2-Hexanone	50	NA	41		83	80-124
Chlorobenzene	50	NA	49		98	89-113
Ethylbenzene	50	NA	48		96	88-113
1,1,1,2-Tetrachloroethane	50	NA	51		103	88-118
Xylenes (total)	150	NA	153		102	89-116
m+p-Xylenes	100	NA	102		102	88-116
o-Xylene	50	NA	51		103	90-116
Styrene	50	NA	50		99	88-117
Bromoform	50	NA	50		99	86-117
Isopropylbenzene	50	NA	59		119	96-136
cis-1,4-Dichloro-2-Butene	50	NA	45		90	59-136
trans-1,4-Dichloro-2-Butene	50	NA	47		93	63-132
Bromobenzene	50	NA	53		107	84-113
N-Propylbenzene	50	NA	52		104	83-121
1,1,2,2-Tetrachloroethane	50	NA	44		88	79-121
1,3,5-Trimethylbenzene	50	NA	50		100	80-123
2-Chlorotoluene	50	NA	51		102	81-120
1,2,3-Trichloropropane	50	NA	43		86	77-120
4-Chlorotoluene	50	NA	51		102	81-122
tert-Butylbenzene	50	NA	49		98	84-121
Pentachloroethane	50	NA	54		109	19-186
1,2,4-Trimethylbenzene	50	NA	52		103	83-118
P-Isopropyltoluene	50	NA	47		93	88-121
1,3-Dichlorobenzene	50	NA	50		100	86-110
1,4-Dichlorobenzene	50	NA	47		94	86-111
N-Butylbenzene	50	NA	42		84	78-121
sec-Butylbenzene	50	NA	50		100	82-122
1,2-Dichlorobenzene	50	NA	49		98	86-112
1,2-Dibromo-3-Chloropropane	50	NA	32	*	64	67-124
1,3,5-Trichlorobenzene	50	NA	44		89	77-120
Hexachlorobutadiene	50	NA	38		77	73-113

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02/02/12
Report Date: 02/07/2012
Matrix: WATER

Lab ID: WG104315-1
Client ID: WG104315-LCS
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/l

COMPOUND	LCS SPIKE	SAMPLE CONC.	LCS CONC.		%REC.	QC. LIMITS
1,2,4-Trichlorobenzene	50	NA	28	*	55	76-126
1,2,3-Trimethylbenzene	50	NA	52		103	85-119
Naphthalene	50	NA	25	*	50	62-126
1,2,3-Trichlorobenzene	50	NA	19	*	38	70-122
Methyl Acetate	50	NA	48		95	70-132
Methylcyclohexane	50	NA	46		93	73-125
1-Chlorohexane	50	NA	44		88	73-119
Total Alkylbenzenes	350	NA	342		98	85-119

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02-FEB-2012 11:33
Report Date: 02/07/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104315-2
Client ID: WG104315-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	1	1.0	1	1
Chloromethane	U	1	1.0	1	1
Vinyl chloride	U	1	1.0	1	1
Bromomethane	U	1	1.0	1	1
Chloroethane	U	1	1.0	1	1
Trichlorofluoromethane	U	1	1.0	1	1
1,1-Dichloroethene	U	1	1.0	1	1
Methylene Chloride	U	5	1.0	5	5
trans-1,2-Dichloroethene	U	1	1.0	1	1
1,1-Dichloroethane	U	1	1.0	1	1
cis-1,2-Dichloroethene	U	1	1.0	1	1
1,2-Dichloroethylene (total)	U	2	1.0	2	2
2,2-Dichloropropane	U	1	1.0	1	1
Chloroform	U	1	1.0	1	1
Bromochloromethane	U	1	1.0	1	1
1,1,1-Trichloroethane	U	1	1.0	1	1
1,2-Dichloroethane	U	1	1.0	1	1
1,1-Dichloropropene	U	1	1.0	1	1
Carbon Tetrachloride	U	1	1.0	1	1
Benzene	U	1	1.0	1	1
1,2-Dichloropropane	U	1	1.0	1	1
Trichloroethene	U	1	1.0	1	1
Dibromomethane	U	1	1.0	1	1
Bromodichloromethane	U	1	1.0	1	1
cis-1,3-dichloropropene	U	1	1.0	1	1
Toluene	U	1	1.0	1	1
trans-1,3-Dichloropropene	U	1	1.0	1	1
1,1,2-Trichloroethane	U	1	1.0	1	1
1,3-Dichloropropane	U	1	1.0	1	1
Dibromochloromethane	U	1	1.0	1	1
Tetrachloroethene	U	1	1.0	1	1
1,2-Dibromoethane	U	1	1.0	1	1
Chlorobenzene	U	1	1.0	1	1
1,1,1,2-Tetrachloroethane	U	1	1.0	1	1
Ethylbenzene	U	1	1.0	1	1
Bromoform	U	1	1.0	1	1
Styrene	U	1	1.0	1	1
1,1,2,2-Tetrachloroethane	U	1	1.0	1	1
1,2,3-Trichloropropane	U	1	1.0	1	1
Isopropylbenzene	U	1	1.0	1	1
Bromobenzene	U	1	1.0	1	1
2-Chlorotoluene	U	1	1.0	1	1
N-Propylbenzene	U	1	1.0	1	1

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02-FEB-2012 11:33
Report Date: 02/07/2012
Matrix: WATER
% Solids: NA

Lab ID: WG104315-2
Client ID: WG104315-Blank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/l

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	1	1.0	1	1
1,3,5-Trimethylbenzene	U	1	1.0	1	1
tert-Butylbenzene	U	1	1.0	1	1
1,2,4-Trichlorobenzene	U	1	1.0	1	1
sec-Butylbenzene	U	1	1.0	1	1
1,3-Dichlorobenzene	U	1	1.0	1	1
P-Isopropyltoluene	U	1	1.0	1	1
1,4-Dichlorobenzene	U	1	1.0	1	1
1,2-Dichlorobenzene	U	1	1.0	1	1
N-Butylbenzene	U	1	1.0	1	1
1,2-Dibromo-3-Chloropropane	U	1	1.0	1	1
1,2,4-Trimethylbenzene	U	1	1.0	1	1
Naphthalene		1	1.0	1	1
Hexachlorobutadiene	U	1	1.0	1	1
1,2,3-Trichlorobenzene		1	1.0	1	1
Methyl tert-butyl ether	U	1	1.0	1	1
Acetone	U	5	1.0	5	5
2-Butanone	U	5	1.0	5	5
4-methyl-2-pentanone	U	5	1.0	5	5
2-Hexanone	U	5	1.0	5	5
m+p-Xylenes	U	2	1.0	2	2
o-Xylene	U	1	1.0	1	1
Xylenes (total)	U	3	1.0	3	3
1,3,5-Trichlorobenzene	U	1	1.0	1	1
Vinyl Acetate	U	1	1.0	1	1
Carbon Disulfide	U	1	1.0	1	1
Diethyl Ether	U	1	1.0	1	1
Tetrahydrofuran	U	5	1.0	5	5
Dibromofluoromethane		102%			
1,2-Dichloroethane-D4		94%			
Toluene-D8		103%			
P-Bromofluorobenzene		93%			

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02-FEB-2012 12:05
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104315-3
Client ID: WG104315-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
Dichlorodifluoromethane	U	500	1.0	10	500
Chloromethane	U	500	1.0	10	500
Vinyl chloride	U	500	1.0	10	500
Bromomethane	U	500	1.0	10	500
Chloroethane	U	500	1.0	10	500
Trichlorofluoromethane	U	500	1.0	10	500
1,1-Dichloroethene	U	250	1.0	5	250
Methylene Chloride	U	1200	1.0	25	1200
trans-1,2-Dichloroethene	U	250	1.0	5	250
1,1-Dichloroethane	U	250	1.0	5	250
cis-1,2-Dichloroethene	U	250	1.0	5	250
1,2-Dichloroethylene (total)	U	500	1.0	10	500
2,2-Dichloropropane	U	250	1.0	5	250
Chloroform	U	250	1.0	5	250
Bromochloromethane	U	250	1.0	5	250
1,1,1-Trichloroethane	U	250	1.0	5	250
1,2-Dichloroethane	U	250	1.0	5	250
1,1-Dichloropropene	U	250	1.0	5	250
Carbon Tetrachloride	U	250	1.0	5	250
Benzene	U	250	1.0	5	250
1,2-Dichloropropane	U	250	1.0	5	250
Trichloroethene	U	250	1.0	5	250
Dibromomethane	U	250	1.0	5	250
Bromodichloromethane	U	250	1.0	5	250
cis-1,3-dichloropropene	U	250	1.0	5	250
Toluene	U	250	1.0	5	250
trans-1,3-Dichloropropene	U	250	1.0	5	250
1,1,2-Trichloroethane	U	250	1.0	5	250
1,3-Dichloropropane	U	250	1.0	5	250
Dibromochloromethane	U	250	1.0	5	250
Tetrachloroethene	U	250	1.0	5	250
1,2-Dibromoethane	U	250	1.0	5	250
Chlorobenzene	U	250	1.0	5	250
1,1,1,2-Tetrachloroethane	U	250	1.0	5	250
Ethylbenzene	U	250	1.0	5	250
Bromoform	U	250	1.0	5	250
Styrene	U	250	1.0	5	250
1,1,2,2-Tetrachloroethane	U	250	1.0	5	250
1,2,3-Trichloropropane	U	250	1.0	5	250
Isopropylbenzene	U	250	1.0	5	250
Bromobenzene	U	250	1.0	5	250
2-Chlorotoluene	U	250	1.0	5	250
N-Propylbenzene	U	250	1.0	5	250

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: Auburn-South Main St.
PO No:
Sample Date:
Received Date:
Extraction Date:
Analysis Date: 02-FEB-2012 12:05
Report Date: 02/07/2012
Matrix: SOIL
% Solids: 100

Lab ID: WG104315-3
Client ID: WG104315-MeOHBlank
SDG: SF0503
Extracted by:
Extraction Method: SW846 5030
Analyst: DCA
Analysis Method: SW846 8260B
Lab Prep Batch: WG104315
Units: ug/Kgdrywt

Compound	Flags	Results	DF	PQL	Adj.PQL
4-Chlorotoluene	U	250	1.0	5	250
1,3,5-Trimethylbenzene	U	250	1.0	5	250
tert-Butylbenzene	U	250	1.0	5	250
1,2,4-Trichlorobenzene	U	250	1.0	5	250
sec-Butylbenzene	U	250	1.0	5	250
1,3-Dichlorobenzene	U	250	1.0	5	250
P-Isopropyltoluene	U	250	1.0	5	250
1,4-Dichlorobenzene	U	250	1.0	5	250
1,2-Dichlorobenzene	U	250	1.0	5	250
N-Butylbenzene	U	250	1.0	5	250
1,2-Dibromo-3-Chloropropane	U	250	1.0	5	250
1,2,4-Trimethylbenzene	U	250	1.0	5	250
Naphthalene	U	250	1.0	5	250
Hexachlorobutadiene	U	250	1.0	5	250
1,2,3-Trichlorobenzene	U	250	1.0	5	250
Methyl tert-butyl ether	U	250	1.0	5	250
Acetone	U	1200	1.0	25	1200
2-Butanone	U	1200	1.0	25	1200
4-methyl-2-pentanone	U	1200	1.0	25	1200
2-Hexanone	U	1200	1.0	25	1200
m+p-Xylenes	U	500	1.0	10	500
o-Xylene	U	250	1.0	5	250
Xylenes (total)	U	750	1.0	15	750
1,3,5-Trichlorobenzene	U	250	1.0	5	250
Vinyl Acetate	U	250	1.0	5	250
Carbon Disulfide	U	250	1.0	5	250
Diethyl Ether	U	250	1.0	5	250
Tetrahydrofuran	U	2500	1.0	50	2500
Dibromofluoromethane		106%			
1,2-Dichloroethane-D4		100%			
Toluene-D8		108%			
P-Bromofluorobenzene		100%			

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104143-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: CFB1031 Lab Sample ID: WG104143-1

Instrument ID: GC12 Date Extracted: 01/30/12

Matrix: (soil/water) SOIL Date Analyzed: 02/06/12

Level:(low/med) LOW Time Analyzed: 1854

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104143-LCS	WG104143-2	CFB1032	02/06/12	1956
02	WG104143-LCSD	WG104143-3	CFB1033	02/06/12	2059
03	SMS-19	SF0503-1	CFB1037	02/07/12	0111
04	SMS-18	SF0503-3	CFB1038	02/07/12	0214
05	SMS-15	SF0503-6	CFB1039	02/07/12	0317
06	SMS-14	SF0503-7	CFB1040	02/07/12	0420
07	SMS-16	SF0503-5	CFB1041	02/07/12	0523
08	SMS-11	SF0503-10	CFB1045	02/07/12	0939
09	SMS-6	SF0503-15	CFB1046	02/07/12	1042
10	SMS-7	SF0503-14	CFB1047	02/07/12	1145
11	SMS-10	SF0503-11	CFB1048	02/07/12	1319
12	SMS-4	SF0503-17	CFB1049	02/07/12	1422
13	SMS-3	SF0503-18	CFB1050	02/07/12	1525
14	SMS-2	SF0503-19	CFB1051	02/07/12	1628
15	SMS-17	SF0503-4	CFB1052	02/07/12	1731
16	SMS-10	SF0503-11DL	CFB1072	02/08/12	1528
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COMMENTS:

FORM IVDRO

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104143-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: CFB1031A Lab Sample ID: WG104143-1

Instrument ID: GC12 Date Extracted: 01/30/12

Matrix: (soil/water) SOIL Date Analyzed: 02/06/12

Level:(low/med) LOW Time Analyzed: 1854

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104143-LCS	WG104143-2	CFB1032A	02/06/12	1956
02	WG104143-LCSD	WG104143-3	CFB1033A	02/06/12	2059
03	SMS-19	SF0503-1	CFB1037A	02/07/12	0111
04	SMS-18	SF0503-3	CFB1038A	02/07/12	0214
05	SMS-15	SF0503-6	CFB1039A	02/07/12	0317
06	SMS-14	SF0503-7	CFB1040A	02/07/12	0420
07	SMS-16	SF0503-5	CFB1041A	02/07/12	0523
08	SMS-11	SF0503-10	CFB1045A	02/07/12	0939
09	SMS-6	SF0503-15	CFB1046A	02/07/12	1042
10	SMS-7	SF0503-14	CFB1047A	02/07/12	1145
11	SMS-10	SF0503-11	CFB1048A	02/07/12	1319
12	SMS-4	SF0503-17	CFB1049A	02/07/12	1422
13	SMS-3	SF0503-18	CFB1050A	02/07/12	1525
14	SMS-2	SF0503-19	CFB1051A	02/07/12	1628
15	SMS-17	SF0503-4	CFB1052A	02/07/12	1731
16	SMS-10	SF0503-11DL	CFB1072A	02/08/12	1528
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COMMENTS:

FORM IVDRO

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104143-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: CFB2031 Lab Sample ID: WG104143-1

Instrument ID: GC12 Date Extracted: 01/30/12

Matrix: (soil/water) SOIL Date Analyzed: 02/06/12

Level:(low/med) LOW Time Analyzed: 1854

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104143-LCS	WG104143-2	CFB2032	02/06/12	1956
02	WG104143-LCSD	WG104143-3	CFB2033	02/06/12	2059
03	SMS-19	SF0503-1	CFB2037	02/07/12	0111
04	SMS-18	SF0503-3	CFB2038	02/07/12	0214
05	SMS-15	SF0503-6	CFB2039	02/07/12	0317
06	SMS-14	SF0503-7	CFB2040	02/07/12	0420
07	SMS-16	SF0503-5	CFB2041	02/07/12	0523
08	SMS-11	SF0503-10	CFB2045	02/07/12	0939
09	SMS-6	SF0503-15	CFB2046	02/07/12	1042
10	SMS-7	SF0503-14	CFB2047	02/07/12	1145
11	SMS-10	SF0503-11	CFB2048	02/07/12	1319
12	SMS-4	SF0503-17	CFB2049	02/07/12	1422
13	SMS-3	SF0503-18	CFB2050	02/07/12	1525
14	SMS-2	SF0503-19	CFB2051	02/07/12	1628
15	SMS-17	SF0503-4	CFB2052	02/07/12	1731
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COMMENTS:

FORM IVDRO

Blank Analysis

Client:	Katahdin Analytical Services	**SDG:**	SF0503
Client Sample ID:	Method Blank Sample	**Date Collected:**	
KAS Sample ID:	WG104143-1	**Date Received:**	
Analytical Method:	MA DEP EPH 04-1.1	**Date Extracted:**	30-JAN-12
Prep Method:	SW846 3546	**Date Reported:**	13-FEB-12
Matrix:	SL	**Percent Solids:**	NA

EPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C11-C22 Aromatics	20	20	mg/Kgdrywt	1	06-FEB-12 18:54	U
C9-C18 Aliphatics	20	20	mg/Kgdrywt	1	06-FEB-12 18:54	U
C19-C36 Aliphatics	20	20	mg/Kgdrywt	1	06-FEB-12 18:54	U
C11-C22 Aromatics	20.	20	mg/Kgdrywt	1	06-FEB-12 18:54	U

Targeted PAH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Naphthalene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
2-Methylnaphthalene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Phenanthrene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Acenaphthylene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Acenaphthene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Anthracene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Benzo(a)anthracene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Benzo(a)pyrene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Benzo(b)fluoranthene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Benzo(g,h,i)perylene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Benzo(k)fluoranthene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Chrysene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Dibenzo(a,h)anthracene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Fluoranthene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Fluorene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Indeno(1,2,3-cd)pyrene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U
Pyrene	0.20	.2	mg/Kgdrywt	1	06-FEB-12 18:54	U

EPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
5-alpha androstane	70	40-140	06-FEB-12 18:54	
o-Terphenyl	63	40-140	06-FEB-12 18:54	
2-Fluorobiphenyl	72	40-140	06-FEB-12 18:54	
2-Bromonaphthalene	79	40-140	06-FEB-12 18:54	

* Fractionation Surrogates.

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C11-C22 Aromatic Hydrocarbons exclude the concentration of Target PAH Analytes.

3 Diesel PAH Analytes.

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Lab ID: WG104143-2,WG104143-3
Preparative Method: SW846 3546
Analytical Method: MA DEP EPH 04-1.1
Analytical Batch: WG104143
Matrix: SL
Preparative Date: 30-JAN-12
Analytical Date: 06-FEB-12

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
2-Methylnaphthalene	mg/Kgdrywt	9.0	3.6	4.8	40	54	40-140	*28	25
Acenaphthene	mg/Kgdrywt	9.0	4	4.9	45	54	40-140	20	25
Acenaphthylene	mg/Kgdrywt	9.0	3.9	5	43	55	40-140	*25	25
Anthracene	mg/Kgdrywt	9.0	4.8	5.4	54	60	40-140	12	25
Benzo(a)anthracene	mg/Kgdrywt	9.0	6.4	7.2	71	80	40-140	12	25
Benzo(a)pyrene	mg/Kgdrywt	9.0	4.8	5.6	53	62	40-140	15	25
Benzo(b)fluoranthene	mg/Kgdrywt	9.0	5.9	6.7	65	74	40-140	13	25
Benzo(g,h,i)perylene	mg/Kgdrywt	9.0	5.1	5.9	57	66	40-140	14	25
Benzo(k)fluoranthene	mg/Kgdrywt	9.0	5.2	5.9	58	65	40-140	13	25
C19-C36 Aliphatics	mg/Kgdrywt	72	48	47	67	65	40-140	2	25
C9-C18 Aliphatics	mg/Kgdrywt	54	27	29	50	53	40-140	7	25
Chrysene	mg/Kgdrywt	9.0	5.3	5.9	59	65	40-140	11	25
Dibenzo(a,h)anthracene	mg/Kgdrywt	9.0	5.5	6.1	61	68	40-140	10	25
Fluoranthene	mg/Kgdrywt	9.0	5.4	6.1	60	68	40-140	12	25
Fluorene	mg/Kgdrywt	9.0	4.6	5.4	51	59	40-140	16	25
Indeno(1,2,3-cd)pyrene	mg/Kgdrywt	9.0	5.4	6.1	60	68	40-140	12	25
Naphthalene	mg/Kgdrywt	9.0	3.4	4.7	*38	52	40-140	*32	25
Phenanthrene	mg/Kgdrywt	9.0	5.4	6	60	67	40-140	10	25
Pyrene	mg/Kgdrywt	9.0	5.3	6	58	67	40-140	12	25
Unadjusted C11-C22 Aromatics	mg/Kgdrywt	153	86	101	56	66	40-140	16	25

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104390-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: 2FB10052 Lab Sample ID: WG104390-1

Date Analyzed: 02/06/12 Time Analyzed: 1151

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG104390-LCS	WG104390-2	2FB10053	02/06/12	1258
02	WG104390-LCSD	WG104390-3	2FB10055	02/06/12	1521
03	SMS-15	SF0503-6	2FB10066	02/07/12	0126
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COMMENTS:

FORM IVVPH

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104390-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: 2FB10073 Lab Sample ID: WG104390-1RA

Date Analyzed: 02/07/12 Time Analyzed: 1118

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SMS-7	SF0503-14DL	2FB10074	02/07/12	1229
02	SMS-19	SF0503-1RA	2FB10076	02/07/12	1437
03	SMS-18	SF0503-3RA	2FB10077	02/07/12	1531
04	SMS-17	SF0503-4RA	2FB10078	02/07/12	1625
05	SMS-14	SF0503-7RA	2FB10079	02/07/12	1719
06	SMS-16	SF0503-5	2FB10080	02/07/12	1813
07	SMS-11	SF0503-10	2FB10081	02/07/12	1908
08	SMS-10	SF0503-11	2FB10082	02/07/12	2004
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COMMENTS:

FORM IVVPH

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG104390-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: AUBURN-SOUTH MAIN ST. SDG No.: SF0503

Lab File ID: 2FB10090 Lab Sample ID: WG104390-1RA2

Date Analyzed: 02/08/12 Time Analyzed: 1108

GC Column: RTX-502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: GC02

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SMS-4	SF0503-17	2FB10095	02/08/12	1551
02	SMS-3	SF0503-18DL	2FB10096	02/08/12	1645
03	SMS-2	SF0503-19DL	2FB10097	02/08/12	1738
04	SMS-6	SF0503-15DL	2FB10098	02/08/12	1833
05					
06					
07					
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COMMENTS:

FORM IVVPH

Blank Analysis

Client:	Katahdin Analytical Services	**SDG:**	SF0503
Client Sample ID:	Method Blank Sample	**Date Collected:**	
KAS Sample ID:	WG104390-1	**Date Received:**	
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	NA

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	06-FEB-12	U
Unadjusted C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	06-FEB-12	U
C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	06-FEB-12	U
C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	06-FEB-12	U
C9-C10 Aromatics	25	25	mg/Kgdrywt	1	06-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U
Naphthalene	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U
Toluene	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U
m+p-Xylenes	2.5	2.5	mg/Kgdrywt	1	06-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	06-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	74	70-130	06-FEB-12	
2,5-Dibromotoluene (PID)	74	70-130	06-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Blank Analysis

Client:	Katahdin Analytical Services	**SDG:**	SF0503
Client Sample ID:	Method Blank Sample	**Date Collected:**	
KAS Sample ID:	WG104390-1RA	**Date Received:**	
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	NA

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
Unadjusted C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	07-FEB-12	U
C9-C10 Aromatics	25	25	mg/Kgdrywt	1	07-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Naphthalene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
Toluene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U
m+p-Xylenes	2.5	2.5	mg/Kgdrywt	1	07-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	07-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	96	70-130	07-FEB-12	
2,5-Dibromotoluene (PID)	95	70-130	07-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.

3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Blank Analysis

Client:	Katahdin Analytical Services	**SDG:**	SF0503
Client Sample ID:	Method Blank Sample	**Date Collected:**	
KAS Sample ID:	WG104390-1RA2	**Date Received:**	
Analytical Method:	MA DEP VPH 04-1.1	**Date Extracted:**	06-FEB-12
Prep Method:	MA DEP VPH 04-1.1	**Date Reported:**	09-FEB-12
Matrix:	SL	**Percent Solids:**	NA

VPH Range Results	Results	PQL	Units	DF	Date Analyzed	Qual
Unadjusted C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	08-FEB-12	U
Unadjusted C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	08-FEB-12	U
C5-C8 Aliphatics	25	25	mg/Kgdrywt	1	08-FEB-12	U
C9-C12 Aliphatics	25	25	mg/Kgdrywt	1	08-FEB-12	U
C9-C10 Aromatics	25	25	mg/Kgdrywt	1	08-FEB-12	U

Targeted VPH Analytes	Results	PQL	Units	DF	Data Analyzed	Qual
Benzene	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U
Ethylbenzene	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U
Methyl tert-butylether	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U
Naphthalene	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U
Toluene	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U
m+p-Xylenes	2.5	2.5	mg/Kgdrywt	1	08-FEB-12	U
o-Xylene	1.2	1.2	mg/Kgdrywt	1	08-FEB-12	U

VPH Surrogate Recoveries	Recovery	Acceptance Range	Date Analyzed	Qual
2,5-Dibromotoluene (FID)	102	70-130	08-FEB-12	
2,5-Dibromotoluene (PID)	98	70-130	08-FEB-12	

1 Hydrocarbon Range data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.
2 C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range.
3 C9-C12 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range AND concentration of C9-C10 Aromatics Hydrocarbons.

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Lab ID: WG104390-2,WG104390-3
Preparative Method: MA DEP VPH 04-1.1
Analytical Method: MA DEP VPH 04-1.1
Analytical Batch: WG104390

Matrix: SL
Preparative Date: 06-FEB-12
Analytical Date: 06-FEB-12

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
C5-C8 Aliphatics	mg/Kgdrywt	70	62	59	89	84	70-130	5	25
C9-C12 Aliphatics	mg/Kgdrywt	47	48	47	102	100	70-130	2	25
C9-C10 Aromatics	mg/Kgdrywt	23	22	21	94	89	70-130	5	25
Benzene	mg/Kgdrywt	23	19	18	82	77	70-130	5	25
Ethylbenzene	mg/Kgdrywt	23	19	18	82	78	70-130	5	25
Methyl tert-butylether	mg/Kgdrywt	23	18	17	76	75	70-130	6	25
Naphthalene	mg/Kgdrywt	23	18	19	79	82	70-130	5	25
Toluene	mg/Kgdrywt	23	19	18	81	76	70-130	5	25
m+p-Xylenes	mg/Kgdrywt	47	39	37	84	80	70-130	5	25
o-Xylene	mg/Kgdrywt	23	20	19	84	80	70-130	5	25
2,5-Dibromotoluene (FID)		93	0	19	82	83	70-130		
2,5-Dibromotoluene (PID)		93	1.3	19	81	82	70-130		

Katahdin
ANALYTICAL SERVICES

PREPARATION BLANK REPORT

Sample ID: PBSFA30ICS1 **Batch ID:** FA30ICS1

Element Name	Result	Units	Flag	PQL	File
ALUMINUM	1.	mg/kgdrywt	U	30.0	IFB01A
ANTIMONY	0.2	mg/kgdrywt	U	0.800	IFB01A
ARSENIC	0.2	mg/kgdrywt	U	0.800	IFB01A
BARIUM	0.13	mg/kgdrywt	J	0.500	IFB01A
BERYLLIUM	0.003	mg/kgdrywt	U	0.500	IFB01A
BORON	0.2	mg/kgdrywt	J	10.0	IFB01A
CADMIUM	0.09	mg/kgdrywt	U	1.00	IFB01A
CALCIUM	11.	mg/kgdrywt	H	10.0	IFB01A
CHROMIUM	0.06	mg/kgdrywt	J	1.50	IFB01A
COBALT	0.03	mg/kgdrywt	U	3.00	IFB01A
COPPER	0.36	mg/kgdrywt	J	2.50	IFB01A
IRON	2.0	mg/kgdrywt	J	10.0	IFB01A
LEAD	0.3	mg/kgdrywt	J	0.500	IFB01A
LITHIUM	0.4	mg/kgdrywt	J	10.0	IFB01A
MAGNESIUM	3.7	mg/kgdrywt	J	10.0	IFB01A
MANGANESE	3.94	mg/kgdrywt	H	0.500	IFB01A
MOLYBDENUM	0.4	mg/kgdrywt	J	1.00	IFB01A
NICKEL	0.12	mg/kgdrywt	J	4.00	IFB01A
SELENIUM	0.2	mg/kgdrywt	U	1.00	IFB01A
SILICON	1.	mg/kgdrywt	U	20.0	IFB01A
SILVER	0.05	mg/kgdrywt	U	1.50	IFB01A
SODIUM	40.	mg/kgdrywt	J	100.	IFB01A
STRONTIUM	0.06	mg/kgdrywt	J	10.0	IFB01A
THALLIUM	0.2	mg/kgdrywt	U	1.50	IFB01A
TIN	1.6	mg/kgdrywt	J	10.0	IFB01A
TITANIUM	0.04	mg/kgdrywt	U	1.50	IFB01A
VANADIUM	0.04	mg/kgdrywt	U	2.50	IFB01A
ZINC	0.46	mg/kgdrywt	J	2.50	IFB01A

U The analyte was not detected in the sample at a level greater than the instrument detection limit.

J The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the sample at a concentration greater than the laboratory's acceptance limit.

Katahdin ANALYTICAL SERVICES

LABORATORY CONTROL SAMPLE REPORT

Sample ID: LCSOFA30ICS1 **Batch ID:** FA30ICS1

Element Name	True Value	Result	Units	Recovery(%)	Flag	Limits (mg/kgdrywt)		File
ALUMINUM	200.	205.	mg/kgdrywt	102.5%		159	241	IFB01A
ANTIMONY	10.0	9.7	mg/kgdrywt	97.0%		7.95	12.0	IFB01A
ARSENIC	10.0	9.9	mg/kgdrywt	99.0%		7.95	12.0	IFB01A
BARIUM	200.	205.	mg/kgdrywt	102.5%		159	241	IFB01A
BERYLLIUM	5.00	5.29	mg/kgdrywt	105.8%		3.98	6.02	IFB01A
BORON	50.0	44.1	mg/kgdrywt	88.2%		39.8	60.2	IFB01A
CADMIUM	25.0	27.2	mg/kgdrywt	108.8%		19.9	30.1	IFB01A
CALCIUM	250.	272.	mg/kgdrywt	108.8%		199	301	IFB01A
CHROMIUM	20.0	21.7	mg/kgdrywt	108.5%		15.9	24.1	IFB01A
COBALT	50.0	53.6	mg/kgdrywt	107.2%		39.8	60.2	IFB01A
COPPER	25.0	26.7	mg/kgdrywt	106.8%		19.9	30.1	IFB01A
IRON	100.	106.	mg/kgdrywt	106.0%		79.5	120	IFB01A
LEAD	10.0	11.1	mg/kgdrywt	111.0%		7.95	12.0	IFB01A
LITHIUM	50.0	44.8	mg/kgdrywt	89.6%		39.8	60.2	IFB01A
MAGNESIUM	500.	502.	mg/kgdrywt	100.4%		398	602	IFB01A
MANGANESE	50.0	50.7	mg/kgdrywt	101.4%		39.8	60.2	IFB01A
MOLYBDENUM	30.0	33.2	mg/kgdrywt	110.7%		23.8	36.1	IFB01A
NICKEL	50.0	52.2	mg/kgdrywt	104.4%		39.8	60.2	IFB01A
SELENIUM	10.0	10.5	mg/kgdrywt	105.0%		7.95	12.0	IFB01A
SILICON	500.	393.	mg/kgdrywt	78.6%	L	398	602	IFB01A
SILVER	5.00	5.02	mg/kgdrywt	100.4%		3.98	6.02	IFB01A
SODIUM	750.	740.	mg/kgdrywt	98.7%		596	904	IFB01A
STRONTIUM	50.0	45.7	mg/kgdrywt	91.4%		39.8	60.2	IFB01A
THALLIUM	10.0	11.2	mg/kgdrywt	112.0%		7.95	12.0	IFB01A
TIN	50.0	51.2	mg/kgdrywt	102.4%		39.8	60.2	IFB01A
TITANIUM	50.0	48.1	mg/kgdrywt	96.2%		39.8	60	IFB01A
VANADIUM	50.0	52.3	mg/kgdrywt	104.6%		39.8	60.2	IFB01A
ZINC	50.0	55.3	mg/kgdrywt	110.6%		39.8	60.2	IFB01A

H Laboratory control sample recovery is greater than the laboratory's acceptance limit.

L Laboratory control sample recovery is less than the laboratory's acceptance limit.

Quality Control Report

Blank Sample Summary Report

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG104216	ASTM D2216	01-FEB-12	31-JAN-12	U 1 %	1 %
MBLANK	WG104307	ASTM D2216	03-FEB-12	02-FEB-12	U 1 %	1 %

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029
http://katahdinlab.com
sales@katahdinlab.com

Katahdin Analytical Services, Inc.

Sample Receipt Condition Report

Client:	Woodard + Curran	KAS PM:	JO	Sampled By:	Client
Project:		KIMS Entry By:	DM	Delivered By:	Client
KAS Work Order#:	SF0503 / ~~SF0504~~ DM	KIMS Review By:	JO	Received By:	DM
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	1-27-12 10:00

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?		✓			
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.	✓				Temp (°C): 3.3
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) may not meet certain regulatory requirements and may invalidate certain data.
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?				✓	Note: No cooling process required for metals analysis.
6. Volatiles free of headspace: **Aqueous:** No bubble larger than a pea				✓	
Soil/Sediment: Received in airtight container?	✓				
Received in methanol?	✓				
Methanol covering soil?	✓				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved? Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments

Katahdin ANALYTICAL SERVICES

600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Woodard & Curran
Contact: Karen Lambek
Phone #: (207) 774-2112
Fax #: (207) 774-6635

Address: 41 Hutchins Drive
City: Portland
State: ME
Zip Code: 04102

Purchase Order #: 203970.25
Proj. Name / No.: Auburn - South Main St.
Katahdin Quote #:

Bill (if different than above):
Address:

Sampler (Print / Sign): Karen Lambek
Copies To: Karen Lambek

LAB USE ONLY
WORK ORDER #: 5F0503
KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (Filt. ☐Y ☐N)	EPH (Filt. ☐Y ☐N)	VPH (Filt. ☐Y ☐N)	Total Lead (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
	SMS-19	1/25/12/0734	SO	7	XX	X	X	X						
	SMS-20	1/26/12/0905												
	SMS-18	1/25/12/0800			X	X	X	X						
	SMS-17	/0835			X	X	X	X						
	SMS-16	/0915			X	X	X	X						
	SMS-15	/0945			X	X	X	X						
	SMS-14	/1025			X	X	X	X						
	SMS-13	/1055												
	SMS-12	/1115												
	SMS-11	/1150			X	X	X	X						
	SMS-10	/1225			X	X	X	X						
	SMS-9	/1310												
	SMS-8	/1345												
	SMS-7	/1430			X	X	X	X						
	SMS-6	/1500			X	X	X	X						
	SMS-5	/1600												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Karen Lambek	1/27/12 1000	[signature]			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

Katahdin ANALYTICAL SERVICES
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Client: Woodard & Curran | Contact: Karen Lambek | Phone #: (207)774-2112 | Fax #: (207)774-6638

Address: 41 Hutchins Drive | City: Portland | State: ME | Zip Code: 04102

Purchase Order #: 203970.25 | Proj. Name / No.: Auburn-South Main St. | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): Karen Lambek | Copies To: Karen Lambek

LAB USE ONLY | WORK ORDER #: SF0503

KATAHDIN PROJECT NUMBER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC (Filt. ☐Y ☐N)	EPH (Filt. ☐Y ☐N)	VPH (Filt. ☐Y ☐N)	Total Lead (Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)	(Filt. ☐Y ☐N)
	SMS-4	1/25/12/1535	SO	7	X	X	X	X						
	SMS-3	1/26/12/0725	↓	↓	X	X	X	X						
	SMS-2	1/26/12/0755	↓	↓	X	X	X	X						
	SMS-1	1/26/12/08:35	↓	↓										
	TB-1	/	W	4										
		/												
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		/												

COMMENTS: Karen Lambek 1/27/12 1000

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

ORIGINAL

KAS-COC1

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jan. 27, 2012
02:19 PM

Login Number: SF0503

Account: WOODAR001 Web
Woodard & Curran

Project:

Primary Report Address:
Karen Lambek
Woodard & Curran
41 Hutchins Drive

Portland,ME 04102
klambek@woodardcurran.com

Primary Invoice Address:
Accounts Payable
Woodard & Curran
41 Hutchins Drive

Portland,ME 04102

Report CC Addresses:
Invoice CC Addresses:

Quote/Incoming:

Login Information:

ANALYSIS INSTRUCTIONS	:	
CHECK NO.	:	
CLIENT PO#	:	203970.25
CLIENT PROJECT MANAGE	:	
CONTRACT	:	
COOLER TEMPERATURE	:	3.3
DELIVERY SERVICES	:	Client
EDD FORMAT	:	KAS027-XLS & KAS064-XLS
LOGIN INITIALS	:	DM
PM	:	JO
PROJECT NAME	:	Auburn-South Main St.
QC LEVEL	:	II
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Email PDF & EDDs to Karen, no HC.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF0503-1	SMS-19	25-JAN-12 07:34	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-2	SMS-20	26-JAN-12 09:05	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-3	SMS-18	25-JAN-12 08:00	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-4	SMS-17	25-JAN-12 08:35	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-5	SMS-16	25-JAN-12 09:15	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

01.27.12

Katahdin ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 27, 2012
02:19 PM

Login Number: SF0503

Quote/Incoming:

Account: WOODAR001 Web
Woodard & Curran

Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF0503-6	SMS-15	25-JAN-12 09:45	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-7	SMS-14	25-JAN-12 10:25	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-8	SMS-13	25-JAN-12 10:55	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-9	SMS-12	25-JAN-12 11:15	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-10	SMS-11	25-JAN-12 11:50	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-11	SMS-10	25-JAN-12 12:25	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-12	SMS-9	25-JAN-12 13:10	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-13	SMS-8	25-JAN-12 13:45	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

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Login Number: SF0503

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Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed
SF0503-14	SMS-7	25-JAN-12 14:30	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-15	SMS-6	25-JAN-12 15:00	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-16	SMS-5	25-JAN-12 16:00	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-17	SMS-4	25-JAN-12 15:35	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	08-FEB-12	4oz Glass		
Solid	S	MA-VPH	22-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	23-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	23-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	08-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	24-FEB-12	4oz Glass		

SF0503-18	SMS-3	26-JAN-12 07:25	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	09-FEB-12	4oz Glass		
Solid	S	MA-VPH	23-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	24-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	24-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	09-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	25-FEB-12	4oz Glass		

SF0503-19	SMS-2	26-JAN-12 07:55	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	MA-EPH	09-FEB-12	4oz Glass		
Solid	S	MA-VPH	23-FEB-12	40 mL Vial+MEOH		
Solid	S	SW3050-PREP	24-JUL-12	4oz Glass		
Solid	S	SW6010-LEAD	24-JUL-12	4oz Glass		
Solid	S	SW8260FULL5ML	09-FEB-12	40 mL Vial+DI+MEOH		
Solid	S	TS	25-FEB-12	4oz Glass		

SF0503-20	SMS-1	26-JAN-12 08:35	27-JAN-12			09-FEB-12	

Matrix	Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
					Sample on hold

SF0503-21	TB-1	26-JAN-12 00:00	27-JAN-12			09-FEB-12	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Solid	S	SW8260FULL5ML	09-FEB-12	40 mL Vial+DI+MEOH		Trip Blank, No TS jar.
Solid	S	TS	25-FEB-12			

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Account: WOODAR001 Web

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Project:

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Mailed

Total Samples: *14* ***Total Analyses:*** *80*

01.27.12

APPENDIX B

Bionax PVCO Pressure Pipe
Specification Sheet

IPEX

BIONAX
PVCO Pressure Pipe

Short-Form Specification

Scope
This specification provides the requirements for ***Bionax*** molecularly oriented polyvinyl chloride (PVCO) pipe for potable-water systems and other pressure-pipe applications. ***Bionax*** Gasketed cast-iron-pipe outside diameter (CIOD) Pressure pipe is available in the following pressure classes and nominal sizes:

- PC 235psi 4" through 18" (100mm – 450mm)
- PC 165psi 16" through 18" (400mm – 450mm)

Materials
Bionax pipe shall be manufactured from rigid polyvinyl chloride (PVC) compound meeting the requirements of ASTM D1784 cell class 12454. ***Bionax*** gaskets shall meet ASTM F477 for high-head applications.

Hydrostatic Design Basis
Starting-stock for ***Bionax*** shall have a hydrostatic design basis (HDB) of 4000 psi and finished pipe shall have an HDB of 7100 psi as determined by testing in accordance with ASTM D1598, with data evaluated in accordance with ASTM D2837.

Pipe
Bionax shall be manufactured with cast-iron-pipe outside diameters (CIOD) in all sizes. Pipe walls shall meet minimum thickness requirements for AWWA C909 and CSA B137.3.1. Pipe shall be joined by means of integral-bell elastomeric-gasket joints conforming to ASTM D3139. Spigot ends shall be chamfered by the manufacturer. Pipe ends shall be capped at the production facility prior to storage and shipping.

Standards
PVCO pipe shall conform to the following standards:

- ANSI/NSF 14 Plastics Piping System Components and Related Materials
- ANSI/NSF Standard 61: Drinking Water System Components – Health Effects
- ASTM F1483 Standard Specification for Oriented Poly(Vinylchloride), PVCO, Pressure Pipe (PR 200psi)
- AWWA C909: Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 Inch Through 24 Inch (100 mm Through 600 mm) for Water Distribution
- BNQ NQ 3660-950 Safety of Products and Materials in Contact with Drinking Water
- CSA B137.3.1 Molecularly Oriented Polyvinylchloride (PVCO) Pipe for Pressure Applications (PR 1620kPa)
- FM 1612 Polyvinyl Chloride (PVC) Pipe and Fittings for Underground Fire Protection Services (PC 150psi, 4" through 12")

ROMAC INDUSTRIES, INC.

ROMAGRIP™ MECHANICAL JOINT RESTRAINING GLAND

FOR STEEL AND DUCTILE IRON SIZE POLYVINYL CHLORIDE (PVC) PIPE

3 THROUGH 12 INCH

SUBMITTAL INFORMATION

USE

The Romac RomaGrip restraining gland is used for the restraint of mechanical joint valves, fittings, and fire hydrants in water transmission and fire protection lines. The RomaGrip replaces costly concrete thrust blocks, corrodible steel tie rods and clamps.

MATERIALS

Gland — Ductile (nodular) iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

Gaskets — A Romac DI / IPS combination gasket may be used on either DI or IPS size pipe. Gasket compounded for water and sewer in accordance with ASTM D 2000. A standard MJ gasket may be used with this fitting on C900 PVC pipe. An MJ X IPS transition gasket is used for IPS size pipe.

Restraining Bolt — 7/8 –9 roll thread, Ductile (nodular) iron, meeting or exceeding ASTM A 536.

Restraining Lugs — Ductile (nodular) iron, meeting or exceeding ASTM A 536. Heat treated using a proprietary process.

Coatings — Shop coat applied to the casting for corrosion protection in transit. Fusion bonded Romabond Polyester coated glands and Xylan coated restraining bolts and lugs optional.

PERFORMANCE

PIPE MATERIAL	PIPE SIZE	WORKING PRESSURE	RECOMMENDED TORQUE FOR T-BOLTS	RECOMMENDED TORQUE FOR RESTRAINING BOLTS
PVC - D.I. SIZE (C900 Class 165)	4" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C900 Class 235 & 305)	4" - 12	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size Less than ASTM D224 Class 160)	3" - 12"	RATING OF PIPE	45 - 60 FT-LBS	30 - 40 FT-LBS
PVC - "CLASS PIPE" (IPS Size ASTM D224 Class 160 & 200)	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - "CLASS PIPE" (IPS Size ASTM D224 Class 160 & 200)	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1785	3"	RATING OF PIPE	45 - 60 FT-LBS	TORQUE OFF HEADS
PVC - SCHED. 40 & 80 ASTM D1786	4" - 12"	RATING OF PIPE	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	4" - 6"	235 PSI	75 - 90 FT-LBS	30 - 40 FT-LBS
PVC - D.I. SIZE (C909)	8"	235 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
PVC - D.I. SIZE (C909)	10" - 12"	150 PSI	75 - 90 FT-LBS	TORQUE OFF HEADS
DUCTILE IRON	NOT COMPATABLE WITH RG-PVC			
STEEL				
ASBESTOS CEMENT				
FIBERGLASS				
HDPE				
*PRESSURE RATINGS ARE DESIGNED WITH A 2:1 SAFTEY FACTOR / ALLOWABLE DEFLECTION 5 DEGREES 3-12"				

FM Approval — FM approved for AWWA C900 pipe class 150 and 200, 4"-12".

This information is based on the best data available at the date printed above, please check with Romac Engineering Department for any updates or changes.

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