

February 24, 2012



Mr. Joseph Martella Ms. Kelly Owens RI Dept. of Environmental Management Office of Waste Management 235 Promenade Street Providence, Rhode Island 02903

RE: Meeting Summary
Queen Anne Square
Newport, Rhode Island
SAGE Project No. S2244

Dear Mr. Martella and Ms. Owens:

Please consider this a summary of our February 22, 2012 meeting. In attendance at the meeting were Kelly Owens and Joseph Martella of the Rhode Island Department of Environmental Management's (RIDEM's) Office of Waste Management, Bruce Clark and Rick Mandile of *SAGE* Environmental, Inc. (*SAGE*), Jeff Moniz of Farrar Associates, Scott Wheeler of the City of Newport and Pieter Roos of the Newport Restoration Foundation. Information in furtherance of the meeting discussion is also provided.

On behalf of its client, the Doris Duke Monument Foundation (DDMF), SAGE requested the meeting to review preliminary data obtained during recent environmental investigation of the referenced property. That data included a review of former property uses and the results of laboratory analysis of soil and groundwater sampling recently conducted. Additional information including a more detailed analysis of Site soil and groundwater data is provided herein.

A summary of former property usage, based on a review of Sanborn Fire Insurance Maps, is included in **Attachment 1**. Background information and a brief narrative relative to former site usage is provided below.

The site is owned by the City of Newport and is currently utilized as a public park and is approximately 1.75 acres in area. The location is proposed for improvements, with both land and hard scapes, along with various architectural and artistic elements. It is *SAGE*'s understanding that the proposed improvements are being funded by the DDMF as a gift to the city. An aerial photograph depicting the site is included as **Figure 1**.

Historic site uses giving rise to potential environmental concern include the former "Egan's Laundry and Cleaners" facility which formerly occupied the southern half of the site. (Egan's Laundry and Cleaning appears to have been a significant facility with approximately half of the former operations

located on the off-site property due East of the Southern half of the site.) In addition, several residential structures once occupied the property. Off-site properties of potential environmental concern include that portion of Egan's Laundry and Cleaners formerly located East of the Site, a former service station located Southeast of the Site at the corner of Spring and Mill Streets and the Trinity Church property East of the Northern portion of the Site where a former underground storage tank was removed and limited soil excavation performed.

Potential contaminants of concern, based on former site usage, include volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH) related to possible dry cleaning chemicals and petroleum products as well as the 13 Priority Pollutant Metals (PP13) possibly present from a variety of urban soil sources including lead-based paints, former pesticides and herbicides as well as potential residues from the combustion of coal. In addition, polynuclear aromatic hydrocarbons (PAHs) often related to residues from various petroleum products and/or combustion of coal and/or wood were also identified as potential site contaminants.

During the limited subsurface investigation performed, 31 borings were advanced. Five of the borings were completed as groundwater monitor wells. Soil boring and monitor well locations, as well as other pertinent features, are shown in **Figure 2**. Monitor well construction details are indicated on the soil boring/ monitor well construction logs included as **Attachment 3**.

Soil samples were collected from each boring and were screened in the field for the presence of total photoionizable compounds using an OVM 580B photoionization detector (PID) and the jar headspace technique. The PID was equipped with a 10.2eV lamp and calibrated to an isobutylene standard. This screening method detects compounds associated with petroleum constituents and common solvents. A total of 159 samples were field screened using the PID. Maximum Field Screening Results for each boring location are summarized in **Table 1**.

Soil samples from two of the borings (B-6 S4A and B-21 S2B) exhibited a fuel-like odor and yielded significant PID headspace responses and were submitted for laboratory analysis for TPH via EPA Method 8100M and VOCs via EPA Method 8260. None of the remaining 29 borings exhibited detectable PID headspace responses. The sample obtained from boring B-34 exhibited an unrecognizable odor and was also submitted for VOC analysis.

As shown in **Table 1**, soil samples were collected from 40 locations and submitted for laboratory analysis. Samples were submitted for TPH analysis via EPA Method 8100M (2 samples), VOCs via EPA Method 8260B (4 samples), SVOCs via EPA Method 8270D (22 Samples), PP13 Metals (22 samples) and Lead (1 sample). The results of soil sample analyses are included as **Attachment 2**. RIDEM advised during our meeting that it considered use of the property as a park as a "residential" use. Accordingly, soil data obtained has been compared to the RIDEM Method 1 Residential Direct Exposure Criteria. Groundwater beneath the site has been classified as GB, and therefore soil analytical data has also been compared to the RIDEM Method 1 GB Leachability criteria, where established. As indicated in the table, several exceedances of the RIDEM Method 1 Residential Direct Exposure Criteria were identified in the samples.



Table 1 Soil Analytical Results Queen Anne Square Newport, Rhode Island

				Analysis	Performed		
		Maximum	Total	Volatile	Semi-Volatile	Priority	
Sample ID	Date	PID	Petroleum	Organic	Organic	Pollutant 13	
	Sampled	Headspace	Hydrocarbon	Compound	Compounds	Metals	Result
		Screening Result	(TPH)	(VOC)	(SVOC)	(PP13)	Result
B-6 S1	1/16/12	ND			X	X	Exceedances of RIDEM M1 RDEC* identified:
							Benzo(a)anthracene, Chrysene,
B-6 S4A	1/16/12	1050	X	X		V (land anla)	Benzo(b)fluoranthene, Benzo(a)pyrene and Lead
B-0 S4A B-7 S1	1/16/12	ND	Λ	Λ	X	X (lead only)	All results compliant with RIDEM M1 RDEC* Exceedances of RIDEM M1 RDEC* identified:
D-7 S1	1/10/12	ND			A	Λ	Chrysene, Beryllium and Lead
B-8 S1	1/16/12	ND			X	X	All results compliant with RIDEM M1 RDEC*
B-9 S1	1/16/12	ND			X	X	Exceedances of RIDEM M1 RDEC* identified:
							Chrysene, Benzo(a)pyrene and Lead
B-10 S1	1/23/12	ND			X	X	All results compliant with RIDEM M1 RDEC*
							except:
							Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene and Benzo(a)pyrene
B-11 S2	1/23/12	ND			X	X	All results compliant with RIDEM M1 RDEC*
D-11 52	1/23/12	ND			Λ	Λ	except:
							Beryllium
B-12 S1	1/23/12	ND			X	X	Exceedances of RIDEM M1 RDEC* identified:
							Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene,
							Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene and
D 14 C1	1/02/10	ND			V	37	Lead Lead
B-14 S1	1/23/12	ND ND			X	X	All results compliant with RIDEM M1 RDEC*
B-17 S1 B-17 S1B	1/23/12 1/23/12	ND ND			X	Λ	Metal results compliant with RIDEM M1 RDEC* Exceedances of RIDEM M1 RDEC* identified:
D-1/ S1D	1/23/12	ND			Λ		Pyrene, Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(k)fluoranthene,
							Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
							Dibenz(a,h)anthracene and Benzo(g,h,i)perylene
B-19 S1	1/23/12	ND				X	Metal results compliant with RIDEM M1 RDEC*
B-19 S1B	1/23/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Chrysene, Benzo(b)fluoranthene and
B-21 S1	1/23/12	ND				X	Benzo(a)pyrene Metal results compliant with RIDEM M1 RDEC*
B-21 S1B	1/23/12	ND			X	74	Exceedances of RIDEM M1 RDEC* identified:
	-,,	- , _					Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(k)fluoranthene,
							Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
D 01 C0D	1/00/10	605	***	77			Dibenz(a,h)anthracene and Benzo(g,h,i)perylene
B-21 S2B	1/23/12	635	X	X			All results compliant with RIDEM M1 RDEC*
							except: TPH
B-21 S3B	1/23/12	ND		X			VOC results compliant with RIDEM M1 RDEC*
B-24 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified:
							Lead
B-24 S1B	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
D 05 G1	1/04/10	ND				37	Chrysene and Benzo(a)pyrene
B-25 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified: Lead
B-25 S2A	1/24/12	ND			X		SVOC results compliant with RIDEM M1 RDEC*
B-26 S1	1/24/12	ND			11	X	Exceedances of RIDEM M1 RDEC* identified:
							Lead
B-26 S1B	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(a)pyrene,
B-27 S1	1/24/12	ND				X	Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene Metal results compliant with RIDEM M1 RDEC*
B-27 S1C	1/24/12	ND ND			X	Λ	SVOC results compliant with RIDEM M1 RDEC*
B-28 S1	1/24/12	ND			- -	X	Metal results compliant with RIDEM M1 RDEC*
B-28 S1B	1/24/12	ND			X		SVOC results compliant with RIDEM M1 RDEC*
B-31 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified:
					_		Lead
	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
B-31 S1B	1/24/12					1	Donas (a) and has a second Characteristic
B-31 S1B	1/24/12						Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
B-31 S1B	1/24/12						Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,

^{*} RIDEM Method 1 Residential Direct Exposure Criteria

Table 1 (cont.) Soil Analytical Results **Queen Anne Square** Newport, Rhode Island

				Analysis	Performed		
		Maximum	Total	Volatile	Semi-Volatile	Priority	
	Date	PID	Petroleum	Organic	Organic	Pollutant 13	
Sample ID	Sampled	Headspace	Hydrocarbon	Compound	Compounds	Metals	Result
		Screening	(TPH)	(VOC)	(SVOC)	(PP13)	
		Result					
B-32 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified:
							Lead
B-32 S1B	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Pyrene, Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(k)fluoranthene,
							Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
							Dibenz(a,h)anthracene and Benzo(g,h,i)perylene
B-33 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified:
							Lead
B-33 S1B	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(k)fluoranthene,
							Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
							Dibenz(a,h)anthracene and Benzo(g,h,i)perylene
B-34 S1	1/24/12	ND				X	Metal results compliant with RIDEM M1 RDEC*
B-34 S1B	1/24/12	ND			X		SVOC results compliant with RIDEM M1 RDEC*
B-34 S2	1/24/12	ND		X			VOC results compliant with RIDEM M1 RDEC*
B-35 S1	1/24/12	ND				X	Metal results compliant with RIDEM M1 RDEC*
B-35 S1B	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(a)pyrene,
							Indeno(1,2,3-cd)pyrene and Benzo(g,h,i)perylene
B-36 S1	1/24/12	ND				X	Exceedances of RIDEM M1 RDEC* identified:
							Arsenic and Lead
B-36 S1C	1/24/12	ND			X		Exceedances of RIDEM M1 RDEC* identified:
							Benzo(a)anthracene, Chrysene,
							Benzo(b)fluoranthene, Benzo(k)fluoranthene,
							Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
							Dibenz(a,h)anthracene and Benzo(g,h,i)perylene

^{*} RIDEM Method 1 Residential Direct Exposure Criteria

Results of VOC analysis identified several target analytes in the sample obtained from B-21; however, none exceeded applicable RIDEM Method 1 Direct Exposure Criteria. Several petroleum-related compounds were identified in the sample. The sample also contained a low concentration of Trichloroethylene. Anecdotal historical information indicates that Egan Cleaners utilized Petroleum Naphtha (possibly Stoddard solvent or other petroleum distillates) in its operations. Given the flammability of these compounds, it is possible that one or more underground storage tanks were utilized historically at the property. In addition, pressing operations required the use of steam which was often times generated by oil fired boilers which utilized underground tanks for fuel oil storage. Boring B-21 is located in a portion of the Site previously improved by Egan Laundry & Cleaners.

Results of laboratory analysis of remaining samples identified exceedances of RIDEM Method 1 Residential Direct Exposure Criteria (M1 RES DEC) as follows:

- TPH: A concentration of 13,200 mg/kg, which exceeds the RIDEM MI RES DEC of 500 mg/kg in Boring B-21 S2B (It should also be noted that this concentration exceeds the GB Leachability criterion for TPH.)
- Polynuclear Aromatic Hydrocarbon (PAH): PAH compounds exceeded RIDEM M1 RES DEC in fifteen of the 22 samples submitted for SVOC analysis.
- PP 13 Metals: Of the samples submitted for PP13 laboratory analysis only lead was identified site wide. Lead concentrations exceeded RIDEM M1 DEC in eleven (11) of the 23 samples submitted. Beryllium was identified at two locations (B-7 S1 and B-11 S2) in exceedance of the RIDEM M1 Residential DEC. Remaining PP13 metals were compliant with RIDEM M1 Residential DEC in all of the 22 samples analyzed with the exception of arsenic which was identified above the RIDEM M1 Residential DEC in a single sample (B-36 S1).

Results of analysis did not identify exceedances of the RIDEM Method 1 GB Leachability Criteria except as indicated above. It should be noted that Method 1 GB Leachability Criteria for the priority pollutant metals have not been established nor have leachability standards been developed for some of the target analytes included in the VOC (EPA Method 8260B) and SVOC (EPA Method 8270C) analyses.

Laboratory VOC analysis of the soil sample obtained from B-6; although it exhibited a significant PID headspace, did not yield elevated concentrations of VOCs nor did TPH results exceed applicable standards. The sample did however exhibit a fuel-like odor.

On January 31, 2011, SAGE conducted groundwater monitoring at the Site. Four of the five wells produced water sufficient for sampling. Groundwater samples were obtained for laboratory analysis, stored in analyte-specific containers, and transported under chain-of-custody protocol to a Rhode Island-certified laboratory for analysis for VOCs via EPA Method 8260B and total metals. The results of groundwater analysis are included as **Attachment 2**. Groundwater analytical results are summarized in **Table 2** below. Results of analysis are compared to the RIDEM Method 1 GB Groundwater Quality Objectives.

Table 2 Groundwater Analytical Results Queen Anne Square Newport, Rhode Island

		Analysis P	erformed	
Sample ID	Date Sampled	Volatile Organic Compound (VOC)	Priority Pollutant 13 Metals (PP13)	Result
MW-1	1/31/12	X		All results compliant with RIDEM M1 GB GWQO* where established
MW-3	1/31/12	X	X	All results compliant with RIDEM M1 GB GWQO * where established
MW-4	1/31/12	X	X	All results compliant with RIDEM M1 GB GWQO * where established
MW-5	1/31/12	X		All results compliant with RIDEM M1 GB GWQO * where established

^{*} RIDEM Method 1 GB Groundwater Quality Objectives

Results of groundwater laboratory analysis for VOCs were non-detect with the exception of MW-1 where very low levels of naphthalene and acetone were detected. It should be noted that GB Groundwater Quality Objectives for many VOCs and for the 13 priority pollutant metals have not been established by RIDEM.

No exceedances of Upper Concentration Limits (UCLs) were identified in any of the soil and/or groundwater samples collected for laboratory analysis. RIDEM considers UCLs as concentrations of hazardous substances or petroleum which, if exceeded, may demarcate a transition between contaminated environmental media and waste in the environment.

Based on current data, groundwater at the site does not appear to have been objectionably impacted, and soil impacts appear consistent with that of many urban settings given similar site usage. Based on the above preliminary information and assuming additional investigation of the property yields similar data, possible remedies were discussed.

Given this preliminary data and under the above assumption, it appears that a cap of two feet of clean soil (or its equivalent) will be the likely remedy. Limited excavation may also be conducted should further site characterization identify localized soil impacts. The site will also require that an Environmental Land Use Restriction (ELUR) be developed for the property, approved by RIDEM and recorded in the City of Newport Land Evidence Records. The ELUR will limit site use and specify management procedures for soil should future site disturbance, if any, be required. In addition, an inspection of the capped areas will also need to be performed annually to ensure that the integrity of the cap is maintained into the future.

Based on our discussion, it is our understanding that any of the three cap types described below would be acceptable.

- Encapsulation of existing soils with two feet (2') of clean soil, preventing erosion with adequate vegetation and/or mulch, and recording of an appropriate ELUR to maintain said engineering controls.
- 2. Encapsulation of existing soils with six inches (6") of clean soil (as sub-base) with a minimum of four inches (4") of asphalt or concrete, and recording of an appropriate ELUR to maintain said engineering controls.
- 3. Encapsulation of existing soils with one foot (1') of clean soil over a geo-fabric material with minimum puncture strength of 120 lbs., and burst strength of 400 psi, and recording of an appropriate ELUR to maintain said engineering controls.

In addition, we discussed concerns relative to capping soil within the root zone of mature trees at the property that are proposed to remain. It is our understanding that RIDEM will evaluate future proposed cap designs for these areas with an understanding that cap thickness could be detrimental to these mature trees and may possibly approve an alternative design, if proposed.

A preliminary data summary, which included the RIDEM Release Notification Form (RNF), was also provided to the Department. The RNF included in the summary has yet to be executed by the City of Newport, and an executed copy will be provided to RIDEM under separate cover.

Upon receipt of the executed RNF, it is *SAGE*'s understanding that RIDEM will issue a Notice of Responsibility (NOR) to the City of Newport requiring that a Site Investigation be performed in accordance with Section 7 of the "Remediation Regulations".

Based on our meeting discussion and results of environmental investigation performed to date, a scope of work will be proposed for RIDEM's review and approval to initiate the Site Investigation process. Prior to initiating field work, public notice will be required. Accordingly, the scope of work will include a DRAFT Public Notice document for RIDEM review. It is our understanding that the site will proceed through the Site Investigation process as follows.

Once public comment (if any) is addressed and after RIDEM approval of a final work scope is received, site investigation field work will be commenced. Upon completion of field work, sufficient in scope to characterize the nature and extent of contamination at the property, a Site Investigation Report (SIR), inclusive of three proposed Remedial Alternatives, will be prepared and submitted to RIDEM.

Upon RIDEM's preliminary approval of the SIR and preferred Remedial Alternative proposed, RIDEM will issue a Program Letter for the property. Upon receipt of the Program Letter, a Public Notice document will be prepared for distribution to site abutters and interested parties indicating that site activities have been completed and a remedy proposed. Upon completion of the public comment



period and resolution of public comments (if any) a revised SIR or an SIR addendum will be developed (as appropriate) and submitted to RIDEM.

Once RIDEM deems the Site Investigation process complete it will issue a Remedial Decision Letter (RDL). After receipt of the RDL, a Remedial Action Work Plan (RAWP) will be prepared in accordance with Section 10 of the "Remediation Regulations" for submittal to RIDEM for review and comment. The RAWP will include a draft ELUR and draft Construction Soil Management Plan (SMP).

Upon resolution of any RIDEM comments relative to the RAWP and Draft ELUR, RIDEM will give its formal approval of the RAWP in the form of a Remedial Approval Letter (RAL). Once the RAL is received, implementation of the remedy can be initiated and advanced through completion. The RAWP process also requires status/closure report submittals summarizing implementation of the remedy and that they be furnished to RIDEM at a frequency typically stipulated in the RAL.

As indicated above, on behalf of its client DDMF, SAGE will submit a scope of work for a proposed Site Investigation upon receipt of the Notice of Responsibility. It is our understanding that RIDEM will make efforts to review and respond to submittals in a timely fashion, if feasible, to allow this project to proceed as scheduled to the extent possible. RIDEM has further indicated that it will also post information regarding the site on its website if requested to do so and if electronic documents are submitted in .pdf file format.

Should you have any questions, comment, or should your understanding of the meeting discussion be inconsistent with ours, or should the above summary of the RIDEM Site Investigation process be inaccurate in any substantive way, please promptly contact either of the undersigned.

Thank you both for taking the time out of your busy schedules to meet with us and availing the RIDEM website for use to communicate investigation details to interested parties.

Sincerely,

SAGE Environmental, Inc.

Rick Mandile

Principal

Bruce W. Clark

Principal

RJM/BWC:car

Attachments

Figures

- 1 Historic site use summary
- 2 Soil and Groundwater Laboratory Analytical Data
- 3 Soil Boring/Monitor Well Logs

FIGURES



SAGE Environmental, Inc

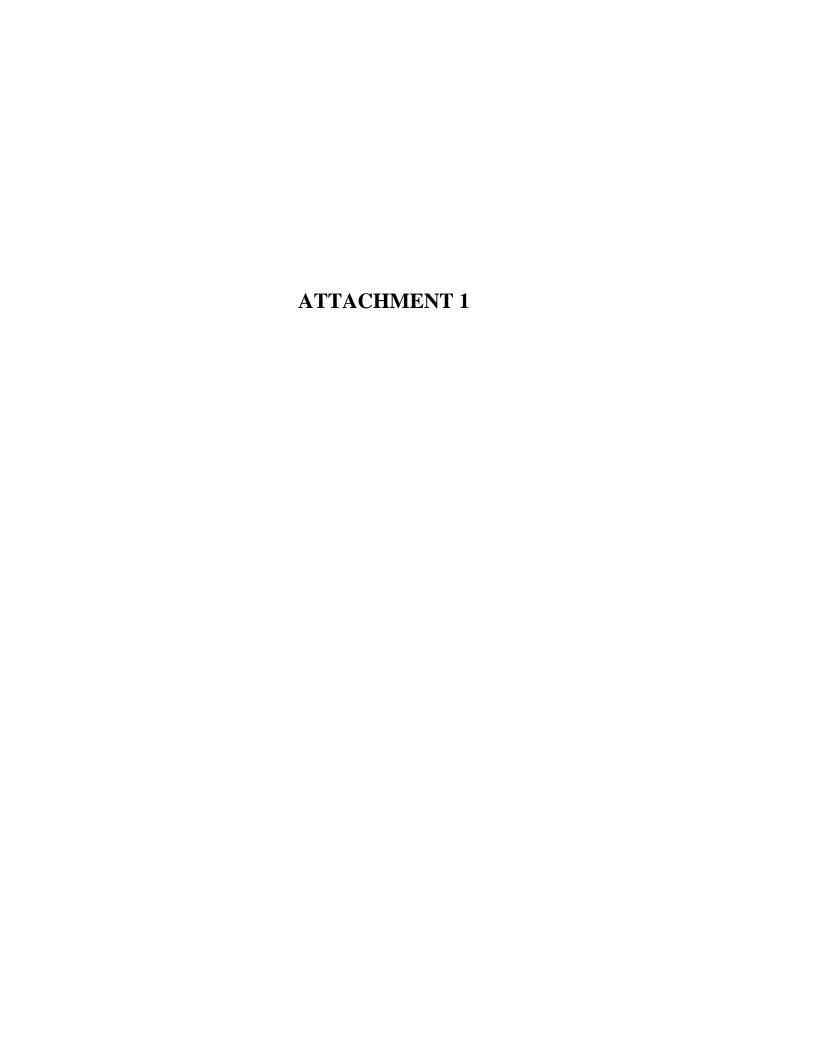
Orthophotography - 2006



Queen Anne Square Newport, Rhode Island

DATE:	02/24/12	JOB#:	S2244
CREATED BY:	DAK	FILENAME:	ortho06.mxd

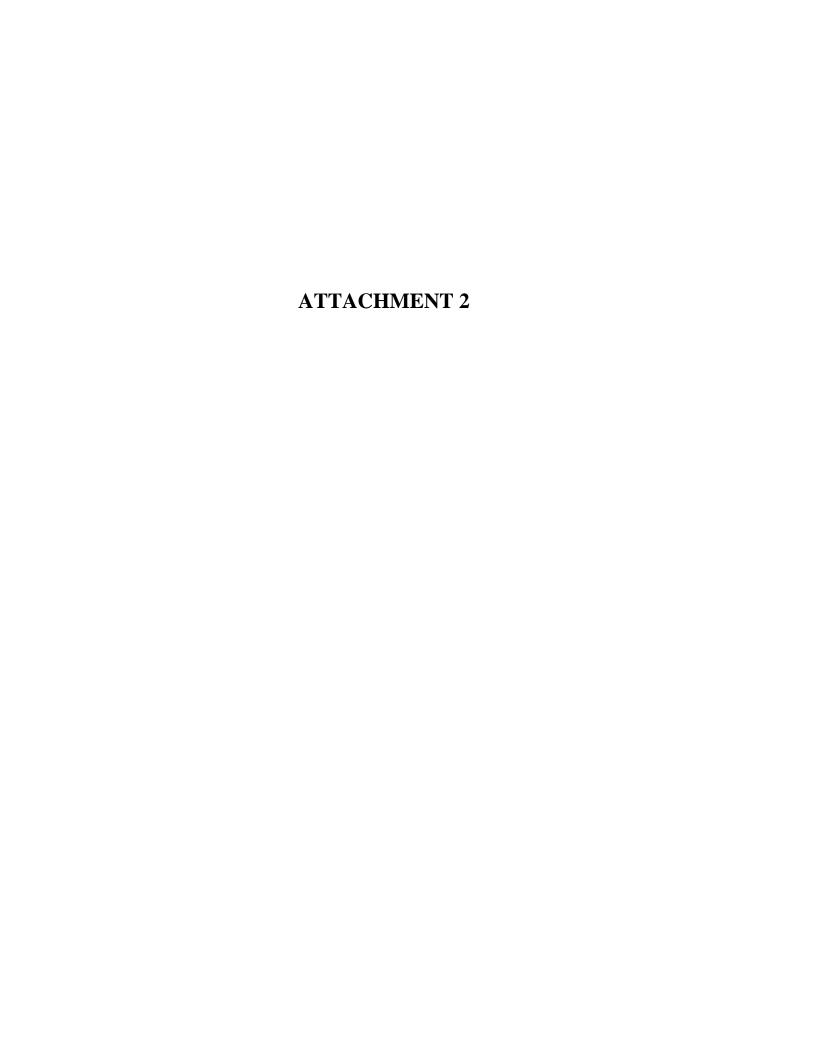




ATTACHMENT 1

Historic Property Use Summary

Date 1844	Description The site, which is divided east to west by Frank Street, is developed with several structures. The southern
1844	The site, which is divided east to west by Frank Street, is developed with several structures. The southern portion of the site is developed with what appears to be a restaurant, shoemaker, dwellings, drugstore, ic cream and candy shops, grocery store, and plumber. The northern portion of the site appears to consist of dwellings, a stove repair and tin shop, hat and clothing company, and a stoves and crockery shop Abutting properties to the north appear to be occupied by dwellings and small commercial businesses. Abutting properties to the east appear to be occupied by a church, dwellings, stables, a public school plumber, locksmith and fire engine house. Areas to the south and west were not depicted on this map.
1891	The site, which is divided east to west by Frank Street, is developed with several structures. The southern portion of the site is developed with what appears to be a shoemaker, dwellings, drugstore, ice cream and candy shops, grocery store, plumber and a structure identified as "paints". The northern portion of the site appears to consist of dwellings, a stove repair and tin shop, hat and clothing company, and a stoves and crockery shop. Abutting properties to the north appear to be occupied by dwellings and small commercial businesses. Abutting properties to the east appear to be occupied by a church, dwellings, a public school, plumber, locksmith and repair shop. Areas to the south and west were not depicted on this map.
1896	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is developed with what appears to be dwellings, drugstore, florist, grocery store, bak house, plumber and structures that appear to be related to City Steam Laundry. The northern portion of the site appears to be occupied by dwellings, a stove repair and tin shop, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. Areas to the east appear to be occupied by a church, dwellings, a public school, plumber, paint shop furniture store and barns. Areas to the south and west were not depicted on this map.
1903	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is developed with what appears to be several small commercial stores, structure identified as club rooms, a portion of Mill Street Steam Laundry, a plumber and drug store. It appear that steam boilers are present on this portion of the site. The northern portion of the site appears to be occupied by dwellings, a tin shop and small commercial stores. Areas to the north appear to be occupied by dwellings and small commercial businesses. Abutting properties to the east appear to be occupied by the remainder of Mill Street Steam Laundry, a church, dwellings, a public school, plumber, paint shop and barns. Abutting properties to the south and west appear to be occupied by small commercial business.
1921	The site, which is divided east to west by Frank Street, is developed with several structures; however, only owners of the lots are identified on this map, not the use of the property. The easterly abutting property is identified as a church. Abutting properties to the south, north and west are developed; however, their use is not identified.
1950	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is occupied by what appears to be several small commercial stores and a portion of Egan's Laundry and Cleaners, Inc. A rectangular-shaped structure is identified as "vault". The norther portion of the site appears to be occupied by dwellings, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. The easterly abutting property is occupied by the remainder of Egan's Laundry and Cleaners, Inc., a church, dwellings, storage building, and plumber. A large gasoline filling station with five underground storage tanks located approximately 300 feet from the property at the corner of Spring and Mill Streets. Abutting
953	properties to the south and west appear to be developed with small commercial businesses. The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is occupied by what appears to be several small commercial stores, a portion of Egan's Laundry and Cleaners, Inc., and a rectangular-shaped structure identified as "vault". The northern portion of the site appears to be occupied by dwellings, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. The easterly abutter is occupied by the remainder of Egan's Laundry and Cleaners, Inc., a church, dwellings, a storage building and plumber. A large gasoline filling station with five underground storage tanks is located is located approximately 300 feet from the property at the corner of Spring and Mill Streets. Abutting properties to the south and west appear to be developed with small commercial businesses.
1963	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is occupied by what appears to be several small commercial stores, a portion of Egan's Laundry and Cleaners, Inc., and a rectangular-shaped structure identified as "vault". The northern portion of the site appears to be occupied by dwellings, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. The easterly abutter is occupied by the remainder of Egan's Laundry and Cleaners, Inc., a church, dwellings, a storage building and plumber. A large gasoline filling station with five underground storage tanks is located approximately 300 feet from the property at the corner of Spring and Mill Streets. Abutting properties to the south and west appear to be developed with small commercial businesses.
968	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is occupied by what appears to be several small commercial stores, a portion of Egan's Laundry and Cleaners, Inc., and a rectangular-shaped structure identified as "vault". The northern portion of the site appears to be occupied by dwellings, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. The easterly abutter is occupied by the remainder of Egan's Laundry and Cleaners, Inc., a church, dwellings, a storage building and plumber. A large gasoline filling station with five underground storage tanks is located on the corner of Spring and Mill Streets. Abutting properties to the south and west appear to be developed with small commercial businesses. Areas to the south and west appear to be developed with small commercial businesses.
1972	The site, which is divided east to west by Frank Street, is developed with several structures. The souther portion of the site is occupied by what appears to be several small commercial stores, a portion of Egan's Laundry and Cleaners, Inc., and a rectangular-shaped structure identified as "vault". The northern portion of the site appears to be occupied by dwellings, and small commercial stores. Abutting properties to the north appear to consist mainly of dwellings and small commercial businesses. The easterly abutter is occupied by the remainder of Egan's Laundry and Cleaners, Inc., a church, dwellings, a storage building and plumber. A large gasoline filling station with five underground storage tanks is located on the corne of Spring and Mill Streets. Abutting properties to the south and west appear to be developed with small commercial businesses.
1990	All structures have been razed from the site, and the site is now developed as a park. Abutting properties to the east are developed with structures identified as R and C, a parish house and a church/cemeter. The large filling station on the corner of Mill and Spring Streets has also been razed and replaced by parking lot.



ATTACHMENT 2

Soil Laboratory Analytical Data January 16 & 23, 2012

Sample / (Depth) / Date		Concentration																	
																		RIDEM Method	11 Objective
	B-6 S1	B-6 S4A	B-7 S1	B-8 S1	B-9 S1	B-10 S1	B-11 S2	B-12 S1	B-14 S1	B-17 S1	B-17 S1B	B-19 S1	B-19 S1B	B-21 S1	B-21-S1B	B-21 S2B	B-21 S3B	Direct Exposure	GB
	4/4 < /2010	4/4 / 10040	4/4 / 1004 0	1/1/2/2012	4/4//0040	4/00/0040	4/00/0040	1/00/0010	1/00/0010	4/00/0040	4/00/0040	1/22/2012	4/02/0040	4/00/0040	4/00/0040	4/00/0040	4 (0.0 (0.0 4.0	(Residential)	Leachability
Analyte	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012		
TPH by 8100M (mg/Kg):		11	11	1	1	l e	<u> </u>	1	1	11	1	11	1	11	11	<u> </u>	1		1
Total Petroleum Hydrocarbons	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13200 ^{abd}	NA	500	2500
Volatile Organic Compounds by 8260B (ug/Kg):	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Vinyl Chloride		<54e														<220e	<68e	20	NE
Bromomethane		<54		<u> </u>		ļ	<u> </u>		ļ	<u> </u>	<u> </u>	<u> </u>	!	.	ļ	<220	<68	800	NE
Chloroethane		<54		ļ			 			 	<u> </u>					<220	<68	NE	NE
Acetone		<270		ļ			 			 	<u> </u>	<u> </u>			.	<1100	<340	7800000	NE
1,1-Dichloroethene		<54		ļ			 			 		<u> </u>				<220°	<68	200	700
Carbon Disulfide		<54					 			 	 		#	 	 	<220	<68	NE	NE
Methylene Chloride		<54				 	 	L	ļ	 		 	#	 	 	<220	<68	45000	NE
tert-Butyl methyl ether	_	<54				 	 	L	ļ	 			#	 	 	<220	<68	390000	100000
trans-1,2 Dichloroethene		<54					 			 	 					<220	<68	1100000	92000
1,1-Dichloroethane		<54					 			 	 					<220	<68	920000	NE
2-Butanone		<270		ļ			 			 						<1100	<340	10000000	NE
2,2-Dichloropropane		<54		ļ			 			 	 					<220	<68	NE	NE
cis-1,2-Dichloroethene		<54					∦ -			 	 	{ 			 	<220	<68	630000	60000
Chloroform		<54			 	ļ	 		ļ		 	 	#	 	 	<220	<68	1200	NE
Bromochloromethane		<54					 			 	 	{ 	#			<220	<68	NE 5 10000	NE 1 (2000)
1,1,1-Trichloroethane		<54					 			 	 	{ -	#		 	<220	<68	540000	160000
1,1-Dichloropropene		<54					 			 	 		#		 	<220	<68	NE 1500	NE Table
Carbon Tetrachloride		<54					 			 	 	 	 			<220	<68	1500	5000
Benzene		<54		#		ļ	 		ļ	 	 		#	 	 	<220	<68	2500	4300
1,2-Dichloroethane		<54		#		ļ	 		ļ	 	 		#	 	 	<220	<68	900	2300
Trichloroethene		<54		#			∦			 	 -		#		 	<220	<68	13000	20000 70000
1,2-Dichloropropane Bromodichloromethane		<54								 	 		H			<220 <220	<68	1900	
Dibromomethane		<54 <54								 	 					<220	<68 <68	10000 NE	NE NE
										H	 		H				<340	1200000	NE NE
4-Methyl-2-pentanone Ethylene Dibromide	 	<270 <54 ^e		.						 	H	{	#			<1100 <220 ^{ef}	<540 <68 ^e	1200000	NE NE
		<54		 	 	 			¦				#	 		<220	<68	NE	NE NE
cis-1,3-Dichloropropene Toluene		<54 <54		╁	 	ļ			¦				#	 	 	<220	<68	190000	54000
Trans-1,3-Dichloropropene		<54		#	H		 		 	H	 	 	#	 	 	<220	<68	NE	NE
1,1,2-Trichloroethane		<54		#	#		 		}	H	#	 	#	 	 	<220	<68	3600	NE NE
2-Hexanone		<270		#	H		 		}	H	 	}	#	 	 	<1100	<340	NE	NE NE
Tetrachloroethene		<54		#	#		 			H	 		#	#	 	1700	<68	12000	4200
Chlorodibromomethane		<54		#	#	H	∦			 	#	}	#	#	 	<220	<68	7600	NE
Chlorobenzene	 	<54		#	}		∦			 	#	}	#		 	<220	<68	210000	100000
1,1,1,2-Tetrachloroethane		<54		#	 		 			H	#		#		 	<220	<68	2200	NE
Ethylbenzene	 	<54		#	 		 			 	 	}	#		 	<220	<68	71000	62000
Total Xylenes		<110		#	 	·	 			 	#		#	 	 	5000	<140	110000	NE
Styrene		<54		#	 	·	 			H	#	 	#	 	 	<220	<68	13000	64000
Bromoform	<u>-</u>	<54	 	#	#	 	∦		i	 	11	∦	#	 	∦	<220	<68	81000	NE
Isopropylbenzene		<54		#	 	H	∦	\	l	 	1	∦	#	 		3200	<68	27000	NE NE
1,1,2,2-Tetrachloroethane		<54		#	 	H	∦		¦	 	11	∦	#	 		<220	<68	1300	NE NE
Bromobenzene		<54		#	 	·	 			H	#	 	#	 	 	<220	<68	NE	NE NE
1,2,3-Trichloropropane		<54		#	 	 	 			 	#		#	 	 	<220	<68	NE NE	NE NE
1,2,3 Themoropropane		\J +	<u> </u>	<u> </u>	JL	<u> </u>	JL	<u> </u>		<u> </u>	11	<u> </u>	11	<u> </u>	<u> </u>	~220	\00	NE	INE

Sample / (Depth) / Date	Concentration																RIDEM Metho	d 1 Objective	
	B-6 S1	B-6 S4A	B-7 S1	B-8 S1	B-9 S1	B-10 S1	B-11 S2	B-12 S1	B-14 S1	B-17 S1	B-17 S1B	B-19 S1	B-19 S1B	B-21 S1	B-21-S1B	B-21 S2B	B-21 S3B	Direct Exposure	GB
Analyte	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	(Residential)	Leachability
2-Chlorotoluene		<54														<220	<68	NE	NE
n-Propylbenzene		220														10000	<68	NE	NE
1,3,5-Trimethylbenzene		<54								l						120000	<68	NE	NE
4-Chlorotoluene		<54		#			i	L		 			h		¦	<220	<68	NE NE	NE NE
tert-Butylbenzene	-	<54		#	∦t		i			 			h		 	2600	<68	NE NE	NE NE
1,2,4-Trimethylbenzene	-	<54		H	H				}				ļ			170000	100	NE NE	NE NE
sec-Butylbenzene	-	<54														12000	<68	NE NE	NE NE
•	-				}				}	{					<u></u>	62000		NE NE	NE NE
p-Isopropyltoluene	_	<54							}								<68		
Chloromethane	-	<54			 		ļ		ļ	 			ļ		ļ	<220	<68	NE	NE
tert butyl alcohol	-	<54		 	 		<u> </u>	L		 		L	ļ		 	<220	<68	NE	NE
1,3-Dichlorobenzene	-	<54							ļ							<220	<68	430000	NE
Tetrahydrofuran	-	<54		#	 		 	}	}	 -						<220	<68	NE	NE
1,4-Dichlorobenzene	_	<54		#	 		 			 	 		ļ		 	<220	<68	27000	NE
Diethyl Ether		<54														<220	<68	NE	NE
n-Butylbenzene	_	760		L			l								l	25000	<68	NE	NE
1,2-Dichlorobenzene		<54														<220	<68	510000	NE
1,2-Dibromo-3-chloropropane	7	<54		I	[]	[<220	<68	500	NE
1,2,4-Trichlorobenzene		<54		1			i		i	i					`	<220	<68	96000	NE
Hexachlorobutadiene		<54		1	1		<u> </u>		1	Ĭ	i		1		Ĭ	<220	<68	8200	NE
Naphthalene		<54			h				1							41000	75	54000	NE
1,2,3-Trichlorobenzene	-	<54		#			!			! 					! 	<220	<68	NE	NE
Tert-amyl Methyl Ether	-	<54		 	h											<220	<68	NE NE	NE NE
Dichlorodifluoromethane	-	<54														<220	<68	NE NE	NE NE
1,3-Dichloropropane	-	<54		# -	H		{		H	{					{	<220	<68	NE NE	NE NE
Trichlorofluoromethane	-	<54			}				}	{					<u></u>	<220	<68	NE NE	NE NE
	-			 	H					l			ļ		l				
Ethyl Tert-butyl ether	-	<54		 	 		ļ	L	ļ	 	L	L	ļ		ļ	<220	<68	NE	NE NE
Diisopropyl Ether	-	<54		# -	#		<u></u>		 	 -						<220	<68	NE NE	NE NE
Total Trihalomethanes		<54														<220	<68	NE	NE
Semivolatile Organic Compoundsby 8270D (ug/Kg):		NA								NA		NA		NA		NA	NA		
Naphthalene	68		<56	<63	<60	63	<55	<57	<61		2600		<57		750			54000	NE
2-Methylnaphthalene	<56		<56	<63	<60	<61	<55	<57	<61		920	T	<57		270		1	123000	NE
Acenaphthylene	<56		<56	<63	<60	100	<55	130	<61		<280	T	<57		110			23000	NE
Acenaphthene	160		<56	<63	<60	170	<55	<57	<61		3400		79		940			43000	NE
Dibenzofuran	<56		<56	<63	<60	140	<55	<57	<61		2200	 	<57		520			NE	NE NE
Fluorene	120		<56	<63	<60	180	<55	<57	<61		3400	 	80		950		 	28000	NE NE
Phenanthrene	1200		500	73	630	2200	<55	560	<61		22000		1100		6100			40000	NE NE
Anthracene	290		66	<63	85	450	<55	110	<61		6700		310		2700	ŀ	{{	35000	NE NE
				-								 					}	20000	NE NE
Fluoranthene	1700		640	180	910	2100	<55	990	<61		20000	 	1600		7500		{{		
Pyrene	1500		800	200	940	2200	<55	1200	<61		17000a	 	1500		6800		 	13000	NE NE
Benzo(a)anthracene	940°		360	84	490	1100°	<55	660	<61		11000 ^{ab}	 	890		4800°		 	900	NE NE
Chrysene	1000 ^a		490°	100	610 ^a	1300°	<55	730 ^a	<61		12000°	ļ	1000°		5000°	ļ	 	400	NE
Benzo(b)fluoranthene	1100 ^a	L	510	130	690	1500 ^a	<55	1100 ^a	<61		11000 ^{ab}	 	1300 ^a		5100 ^a	ļ	 	900	NE
Benzo(k)fluoranthene	470		190	<63	220	400	<55	430	<61		3500 ^a		440		2000a		 	900	NE
Benzo(a)pyrene	860 ^{ab}	<u> </u>	380	80	530 ^a	1100 ^{ab}	<55	950 ^{ab}	<61		8900ab	L	990 ^{ab}		4300 ^{ab}	L	 _	400	NE
Indeno(1,2,3-cd)pyrene	680	<u> </u>	320	76	440	760	<55	950a	<61		5900 ^a	L	880		3400 ^a	L	 	900	NE
Dibenz(a,h)anthracites	150		78	<63	95	210	<55	220	<61		1800 ^{ab}		240		910 ^{ab}	 		400	NE
Benzo(g,h,i)perylene	610		320	<63	390	670	<55	920 ^a	<61		4800 ^a		780		3000 ^a			800	NE

Sample / (Depth) / Date									Concentration	ı								RIDEM Method	I 1 Objective
	B-6 S1	B-6 S4A	B-7 S1	B-8 S1	B-9 S1	B-10 S1	B-11 S2	B-12 S1	B-14 S1	B-17 S1	B-17 S1B	B-19 S1	B-19 S1B	B-21 S1	B-21-S1B	B-21 S2B	B-21 S3B	Direct Exposure (Residential)	GB Leachability
Analyte	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	1/23/2012	(Residential)	Leachability
Total Metals by 6010C (mg/Kg):											NA		NA		NA	NA	NA		
Antimony	1.16		2.26	1.58	1.63	< 0.95	1.22	0.89	< 0.73	1.21		<1.51		0.87				10	NE
Arsenic	2.92		5.84	3.9	5.96	1.04	1.79	3.05	1.35	3.89		4.94		2.67				7	NE
Beryllium	0.38		0.53 ^a	<0.46 ^e	0.38	<0.47 ^e	0.46 ^a	< 0.37	< 0.37	<0.43 ^e		<0.76 ^e		< 0.37				0.4	NE
Cadmium	0.76		1.03	0.67	1.09	< 0.47	< 0.35	< 0.37	< 0.37	< 0.43		< 0.76		< 0.37				39	NE
Chromium	8.92		11.4	10.2	9.43	9.46	9.06	8.34	6.27	9.19		10		8.25				390	NE
Copper	20.7		49	12.3	53.2	11.5	20.9	29.5	26.7	28.4		13.2		19				3100	NE
Lead	230 ^a	44.8	528 ^{ab}	38.3	799 ^{ab}	58.3	7.3	347 ^a	103	71.4		14.3		105				150	NE
Nickel	12.2		14.3	11.6	10.9	10.2	16	10.6	8.58	14.4		13		10.2		L		1000	NE
Selenium	5.67		7.03	5.74	8.42	2.58	6.55	6.79	7.79	5.81		5.77		4.79				390	NE
Silver	< 0.34		< 0.44	< 0.46	< 0.38	< 0.47	0.44	< 0.37	< 0.37	< 0.43	L	< 0.76	[]	< 0.37		L		200	NE
Zinc	102		227	43.7	225	64.6	39.3	56.5	50.1	57.2		39.4		85.5				6000	NE
Total Metals by 7471B (mg/Kg):											NA		NA		NA	NA	NA		
Mercury	0.583		0.444	0.876	0.111	0.434	< 0.069	0.396	0.215	0.129	_	0.134	_	0.364	_	_		23	NE
Total Metals by 7010 (mg/kg):	Metals by 7010 (mg/kg):										NA		NA		NA	NA	NA		
Thallium	< 0.13	_	< 0.18	< 0.18	< 0.15	< 0.19	< 0.14	< 0.15	< 0.15	< 0.17	_	< 0.3		< 0.15		_		5.5	NE

Where necessary, the RIDEM objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

NE: No allowable limit is established for the substance

a-d: Analyte concentration in this sample exceeds the RIDEM objectives for:

a: Direct Exposure in a residential area

d: GB Leachability

e-f: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds the RIDEM objectives for:

e: Direct Exposure in a residential area

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x) Sample Results:

Soil Laboratory Analytical Data January 24, 2012

Sample / (Depth) / Date						Concer	ntration						RIDEM Metho	d 1 Objective
	B-24 S1	B-24 S1B	B-25 S1	B-25 S2A	B-26 S1	B-26 S1B	B-27 S1	B-27 S1-C	B-28 S1	B-28 S1B	B-31 S1	B-31 S1B	Direct Exposure	GB
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	Leachability
TPH by 8100M (mg/Kg):					,,								1	-
Total Petroleum Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	2500
		- 1.1.2				- 1.1.1					- 1.1 -			
Volatile Organic Compounds by 8260B (ug/Kg):	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Vinyl Chloride		ļ	 	 				ļ	<u> </u>	<u> </u>		ļ	20	NE
Bromomethane		L	<u> </u>	 				ļ	<u> </u>			ļ	800	NE
Chloroethane													NE	NE
Acetone			!				<u> </u>						7800000	NE
1,1-Dichloroethene													200	700
Carbon Disulfide		L						ļ				<u> </u>	NE	NE
Methylene Chloride		L	 	I	J	J	L]	L		L	L <u>-</u>	45000	NE
tert-Butyl methyl ether		L		I	J	J	L		L				390000	100000
trans-1,2 Dichloroethene													1100000	92000
1,1-Dichloroethane													920000	NE
2-Butanone			1										10000000	NE
2,2-Dichloropropane			1	 				<u> </u>	1			*	NE	NE
cis-1,2-Dichloroethene		Ĭ	1	II	Ĭ	Ĭ		Ĭ		Ï	Ĭ	Ĭ	630000	60000
Chloroform		Ĭ			Ĭ	Ĭ		i	<u>"</u>	1	Ī	Ĭ	1200	NE
Bromochloromethane		Ĭ	<u> </u>	 	Ĭ	Ĭ	1		Ĭ			Ĭ	NE	NE
1,1,1-Trichloroethane										T			540000	160000
1,1-Dichloropropene			#	*									NE	NE
Carbon Tetrachloride				#					 	T			1500	5000
Benzene			 	 									2500	4300
1,2-Dichloroethane		h	╣	#	 	 	 	 	¦	<u> </u>	l	¦	900	2300
Trichloroethene		L	#	#	H	 	 	 	` 			i	13000	20000
1,2-Dichloropropane													1900	70000
Bromodichloromethane													10000	NE
Dibromomethane			 							 			NE	NE NE
1			}	#	H			<u></u>	\ 			}	1200000	NE NE
4-Methyl-2-pentanone		L		#	 	 		 		<u> </u>	L	-		NE NE
Ethylene Dibromide		L	 	 	 		<u> </u>	 	- 		l	l	10 NE	
cis-1,3-Dichloropropene													NE 100000	NE 5 4000
Toluene		L	#	#	 		 						190000	54000
Trans-1,3-Dichloropropene		}	 	 	 		 			₩		}	NE 2500	NE
1,1,2-Trichloroethane													3600	NE
2-Hexanone		ļ	 	#	 	 	 	ļ. — . — . — . — . —			L	ļ .	NE	NE
Tetrachloroethene		ļ	# -	#		ļ	ļ	ļ			ļ		12000	4200
Chlorodibromomethane			#_	#	 	 		 		#	ļ	ļ	7600	NE
Chlorobenzene			 	 				 	J	 		 	210000	100000
1,1,1,2-Tetrachloroethane		ļ	 	 			 		<u> </u>	<u> </u>		ļ <u>-</u>	2200	NE
Ethylbenzene			 							<u> </u>			71000	62000
Total Xylenes		ļ	 	 			<u> </u>		<u>L</u>	<u> </u>		ļ .	110000	NE
Styrene		<u> </u>	<u> </u>				<u> </u>	<u> </u>	<u> </u>	<u> </u>		ļ	13000	64000
Bromoform		<u> </u>	<u> </u>			 	<u> </u>	<u> </u>	<u> </u>			<u> </u>	81000	NE
Isopropylbenzene								<u> </u>					27000	NE
1,1,2,2-Tetrachloroethane		L		I	J	I	L	J	L				1300	NE
Bromobenzene		L				J		J				I	NE	NE
1,2,3-Trichloropropane		[1	II		T	[]					NE	NE

Sample / (Depth) / Date				RIDEM Method	l 1 Objective									
	B-24 S1	B-24 S1B	B-25 S1	B-25 S2A	B-26 S1	B-26 S1B	B-27 S1	B-27 S1-C	B-28 S1	B-28 S1B	B-31 S1	B-31 S1B	Direct Exposure	GB
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	Leachability
2-Chlorotoluene													NE	NE
n-Propylbenzene													NE	NE
1,3,5-Trimethylbenzene													NE	NE
4-Chlorotoluene		Ĭ		Ĭ									NE	NE
tert-Butylbenzene													NE	NE
1,2,4-Trimethylbenzene		Ŭ	Ï	Ĭ			Ĭ	Ĭ	1	Î	T		NE	NE
sec-Butylbenzene		†											NE	NE
p-Isopropyltoluene		#											NE	NE
Chloromethane		#							¦				NE NE	NE
tert butyl alcohol		H		1			L				L		NE NE	NE
,		H		ļ			 	 			H	 	430000	NE NE
1,3-Dichlorobenzene		H		1					L		L	 		
Tetrahydrofuran		#										 -	NE 27000	NE
1,4-Dichlorobenzene													27000	NE
Diethyl Ether													NE	NE
n-Butylbenzene		J	,										NE	NE
1,2-Dichlorobenzene													510000	NE
1,2-Dibromo-3-chloropropane		II				J	L	J	L	l	L		500	NE
1,2,4-Trichlorobenzene													96000	NE
Hexachlorobutadiene													8200	NE
Naphthalene		1								i	1	1	54000	NE
1,2,3-Trichlorobenzene		Ŭ	Ĭ	Ĭ					1		Ĭ		NE	NE
Tert-amyl Methyl Ether		†											NE	NE
Dichlorodifluoromethane		#											NE	NE
1,3-Dichloropropane		+											NE NE	NE
Trichlorofluoromethane													NE NE	NE
Ethyl Tert-butyl ether		#		1			L	 			H		NE NE	NE NE
		H		l			L		 		H	 	NE NE	NE NE
Diisopropyl Ether Total Trihalomethanes		\										H	NE NE	NE NE
													NE	NE
Semivolatile Organic Compounds by 8270D (ug/Kg):	NA		NA		NA		NA		NA		NA			
Naphthalene		<290		<59		<82		<55		<56		120	54000	NE
2-Methylnaphthalene		<290		<59		<82		<55		<56		61	123000	NE
Acenaphthylene		<290		<59		340		<55		<56		64	23000	NE
Acenaphthene		<290		<59		<82		<55		<56		430	43000	NE
Dibenzofuran		<290		<59		<82		<55		<56		180	NE	NE
Fluorene		<290		<59		190		<55		<56		340	28000	NE
Phenanthrene	-∦	800		87		2100		<55		160		3200	40000	NE
Anthracene	-∦	<290		<59		250		<55		<56		940	35000	NE NE
						2500								
Fluoranthene		1200		160				94		<56		4200	20000	NE
Pyrene		860		140		2700		88		290		4300	13000	NE
Benzo(a)anthracene		570		70		1200a	L	70	 	160	 	2500°	900	NE
Chrysene	_	630 ^a		100		1500a	 	60		190		2700 ^a	400	NE
Benzo(b)fluoranthene		740		120		1700°	L	80	 	200	 	2900 ^a	900	NE
Benzo(k)fluoranthene	_	<290		<59		530	L	<55	 	73	 	1000 ^a	900	NE
Benzo(a)pyrene		630 ^a		89		1300 ^{ab}	L	71		160		2400 ^{ab}	400	NE
Indeno(1,2,3-cd)pyrene		470		78		1000°		<55		120		1900a	900	NE
Dibenz(a,h)anthracene		<290		<59		250	[<55	T	<56	T	560°	400	NE
Benzo(g,h,i)perylene		660		94		1200a		<55	1	130		1800a	800	NE
		1 200	<u> </u>				<u> </u>	<u> </u>	11	-20	<u> </u>	11		- 12

Sample / (Depth) / Date						Concer	ntration						RIDEM Metho	d 1 Objective
	B-24 S1	B-24 S1B	B-25 S1	B-25 S2A	B-26 S1	B-26 S1B	B-27 S1	B-27 S1-C	B-28 S1	B-28 S1B	B-31 S1	B-31 S1B	Direct Exposure	GB
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	Leachability
Total Metals by 6010C (mg/Kg):		NA		NA		NA		NA		NA		NA		
Antimony	1.49		1.13		0.85		< 0.79		1.07		1.35		10	NE
Arsenic	4.12		5.55		4.38		1.33		5.54		4.9		7	NE
Beryllium	< 0.36		<0.46 ^e		< 0.32		< 0.39		<0.45 ^e		<0.43 ^e		0.4	NE
Cadmium	1.45		0.6		0.41		< 0.39		< 0.45		0.97		39	NE
Chromium	11.3		10.1		7.8		3.35		12.3		10.1		390	NE
Copper	721		32.6		20.6		7.07		13.1		53.4		3100	NE
Lead	427 ^a		249 ^a		185 ^a		26.7		58.3		683 ^{ab}		150	NE
Nickel	18.5		13.5		11.5		5.15		10.4		11.9		1000	NE
Selenium	6.16		8.32		4.64		3.54		7.02		7.26		390	NE
Silver	< 0.36		< 0.46		< 0.32		< 0.39		< 0.45		< 0.43		200	NE
Zinc	363		242		99.6		22.1		45.3		482		6000	NE
Total Metals by 7471B (mg/Kg):		NA		NA		NA		NA		NA		NA		
Mercury	0.287		0.452		0.196		< 0.079		0.105		1.57		23	NE
Total Metals by 7010 (mg/kg):		NA		NA		NA		NA		NA		NA		
Thallium	< 0.14	-	< 0.18	_	< 0.13	_	< 0.16	-	< 0.18	_	< 0.17	_	5.5	NE

Where necessary, the RIDEM objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

Sample Results:

NE: No allowable limit is established for the substance

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

a-d: Analyte concentration in this sample exceeds the RIDEM objectives for:

e-f: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds the RIDEM objectives for:

Sample / (Depth) / Date					RIDEM Meth	od 1 Objective							
	B-32 S1	B-32 S1B	B-33 S1	B-33 S1B	B-34 S1	B-34 S1B	B-34 S2	B-35 S1	B-35 S1B	B-36 S1	B-36 S1C	Direct Exposure	GB Leachability
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	
TPH by 8100M (mg/Kg):	1/2 1/2012	1/21/2012	1/21/2012	1/21/2012	1/2 1/2012	1/21/2012	1/2 1/2012	1/21/2012	1/21/2012	1/21/2012	1/21/2012		
		1	1	1		1		1	1	1		1	1
Total Petroleum Hydrocarbons	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	500	2500
Volatile Organic Compounds by 8260B (ug/Kg):	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA		
Vinyl Chloride							<72 ^e					20	NE
Bromomethane							<72					800	NE
Chloroethane		<u> </u>	_	<u> </u>	ļ		<72			<u> </u>		NE	NE
Acetone		<u> </u>	L	J	l		<360			L		7800000	NE
1,1-Dichloroethene			L	U			<72			L	l	200	700
Carbon Disulfide]		U			<72					NE	NE
Methylene Chloride							<72					45000	NE
tert-Butyl methyl ether							<72					390000	100000
trans-1,2 Dichloroethene							<72					1100000	92000
1,1-Dichloroethane		1	Ī]		<72					920000	NE
2-Butanone		Ĭ	Ĭ	Ĭ	Ĭ		<360					10000000	NE
2,2-Dichloropropane		1	 	Ĭ	Ĭ	i	<72			ii		NE	NE
cis-1,2-Dichloroethene		1		X			<72					630000	60000
Chloroform	_	1		Ĭ		ii	<72			i		1200	NE
Bromochloromethane		1		X			<72					NE	NE
1,1,1-Trichloroethane		 					<72				·	540000	160000
1,1-Dichloropropene		1	Ĭ	Ĭ	1		<72		Ĭ	<u> </u>		NE	NE
Carbon Tetrachloride		1	Ī	Ĭ	İ	Ĭ	<72		Ï	i		1500	5000
Benzene		 					<72					2500	4300
1,2-Dichloroethane		 					<72					900	2300
Trichloroethene		 					<72					13000	20000
1,2-Dichloropropane		#		X			<72					1900	70000
Bromodichloromethane		#	H	 	l		<72		l	 		10000	NE
Dibromomethane			 	 	l		<72		l	H		NE	NE NE
4-Methyl-2-pentanone		 					<360					1200000	NE NE
Ethylene Dibromide		#		X			<72 ^{ef}					10	NE NE
cis-1,3-Dichloropropene		 					<72					NE	NE NE
Toluene		 		H			<72					190000	54000
Trans-1,3-Dichloropropene		 	H				<72		 	 		NE	NE
			H	U		H	<72		ll	 	l	3600	NE NE
1,1,2-Trichloroethane 2-Hexanone		 	#	 		 	<360		 	 	\	NE	NE NE
		{				 				 		12000	4200
Tetrachloroethene		 					<72						
Chloredibromomethane	 	 -					<72			} 		7600	NE 100000
Chlorobenzene		 -	 	 			<72			 		210000	100000
1,1,1,2-Tetrachloroethane	 	#	 	<u> </u>	ļ		<72		II. – - –	 		2200	NE C2000
Ethylbenzene	 	#	 	<u> </u>	ļ		<72		II. – - –	<u> </u>		71000	62000
Total Xylenes		 	 			 	<140	 		}	}	110000	NE (1000
Styrene							<72			 		13000	64000
Bromoform		 					<72			 		81000	NE
Isopropylbenzene		 	 	 			<72		 			27000	NE
1,1,2,2-Tetrachloroethane	_	 	 	<u> </u>		<u> </u>	<72			<u> </u>		1300	NE
Bromobenzene	_	 	 	<u> </u>		<u> </u>	<72			<u> </u>		NE	NE
1,2,3-Trichloropropane							<72					NE	NE

Sample / (Depth) / Date				DIDEM Moth	od 1 Objective								
	B-32 S1	B-32 S1B	B-33 S1	B-33 S1B	B-34 S1	B-34 S1B	B-34 S2	B-35 S1	B-35 S1B	B-36 S1	B-36 S1C		GB Leachability
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	
2-Chlorotoluene							<72					NE	NE
n-Propylbenzene							<72					NE	NE
1,3,5-Trimethylbenzene							<72					NE	NE
4-Chlorotoluene		1	Ĭ	Ĭ	Ĭ	` <u>_</u>	<72		Ĭ			NE	NE
tert-Butylbenzene		Ï	Ĭ	Ĭ	Ĭ	Ĭ	<72		Î	Ï	Î	NE	NE
1,2,4-Trimethylbenzene		 	Ĭ) 	Ĭ	<u> </u>	<72		ii	Ï		NE	NE
sec-Butylbenzene		1		X		 	<72		1			NE	NE
p-Isopropyltoluene				X			<72		 			NE	NE
Chloromethane		1		X			<72		h			NE	NE
tert butyl alcohol		 	Ĭ	Ĭ	Ĭ		<72			Ĭ		NE	NE
1,3-Dichlorobenzene		1	Ĭ	Ĭ	Ĭ		<72		#	L		430000	NE
Tetrahydrofuran		#	l	¥	 	 	<72		#	L		NE	NE
1,4-Dichlorobenzene		#		X			<72		#			27000	NE
Diethyl Ether	- 						<72					NE NE	NE NE
n-Butylbenzene							<72					NE NE	NE NE
1,2-Dichlorobenzene							<72		#			510000	NE NE
1,2-Dibromo-3-chloropropane							<72		 			500	NE NE
1,2,4-Trichlorobenzene							<72					96000	NE NE
Hexachlorobutadiene		 		X			<72		#			8200	NE NE
Naphthalene		H		X			<72		# -			54000	NE NE
1,2,3-Trichlorobenzene			 	 	 	 	<72		 	 	l I	NE	NE NE
Tert-amyl Methyl Ether	- 	H					<72				}	NE NE	NE NE
Dichlorodifluoromethane	- 	{					<72					NE NE	NE NE
1												NE NE	NE NE
1,3-Dichloropropane Trichlorofluoromethane	_						<72 <72		.			NE NE	NE NE
		 	L	V	 					L	L		
Ethyl Tert-butyl ether		 	L	V	 		<72			L		NE NE	NE NE
Diisopropyl Ether		#		X			<72		#		ļ	NE NE	NE NE
Total Trihalomethanes							<72					NE	NE
Semivolatile Organic Compounds by 8270D (ug/Kg):	NA		NA		NA		NA	NA		NA			
Naphthalene		990	L	370		<54		L	200		130	54000	NE
2-Methylnaphthalene		440	L	130		<54		L	120		67	123000	NE
Acenaphthylene		620	L	60		94			380		70	23000	NE
Acenaphthene		1400		970		<54			210		600	43000	NE
Dibenzofuran		930		380		<54			200		170	NE	NE
Fluorene		1700	[720		<54)[::::::	250		500	28000	NE
Phenanthrene		13000		5700		83		<u> </u>	2300		4100	40000	NE
Anthracene	T	14000		1800		<54		T	630		1700	35000	NE
Fluoranthene	T	18000		10000		180		T	2000		7900	20000	NE
Pyrene	 	15000°		6800		190			2200		7400	13000	NE
Benzo(a)anthracene	 	9700 ^{ab}		4100 ^a		150			1100 ^a		4400a	900	NE
Chrysene	 	10000°		4400a		190			1300a		4500a	400	NE
Benzo(b)fluoranthene	╢	10000 ^{ab}		4900a		320		[1400a		4600a	900	NE
Benzo(k)fluoranthene	 	3000 ^a		1900a		150		1	430		1500a	900	NE
Benzo(a)pyrene	┨┄┈┈	8100 ^{ab}		3900ab		200			1300 ^{ab}		3900 ^{ab}	400	NE
Indeno(1,2,3-cd)pyrene	╣	5600°		3000 ^a		300			1000 ^a		3000 ^a	900	NE
Dibenz(a,h)anthracene	╣	1700 ^{ab}		760 ^a		110			270		770 ^a	400	NE
Benzo(g,h,i)perylene	╣	5300 ^a		2700 ^a		360			1100 ^a		2600 ^a	800	NE

Sample / (Depth) / Date				RIDEM Meth	od 1 Objective								
1	B-32 S1	B-32 S1B	B-33 S1	B-33 S1B	B-34 S1	B-34 S1B	B-34 S2	B-35 S1	B-35 S1B	B-36 S1	B-36 S1C	Direct Exposure	GB Leachability
Analyte	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	1/24/2012	(Residential)	
Total Metals by 6010C (mg/Kg):		NA		NA		NA	NA		NA		NA		
Antimony	< 0.68		0.97		< 0.67			< 0.91		1.58		10	NE
Arsenic	1.05		5.26		2.09			3.06		19.8ab		7	NE
Beryllium	< 0.34		<0.42 ^e		< 0.34			<0.45 ^e		0.38		0.4	NE
Cadmium	0.73		< 0.42		< 0.34			< 0.45		< 0.37		39	NE
Chromium	3.67		8.93		4.89			5.8		11.6		390	NE
Copper	44.9		15.1		7.51			6.61		44.1		3100	NE
Lead	596 ^{ab}		201 ^a		38.2			30.2		328 ^a		150	NE
Nickel	11.9		8.96		3.67			5.04	L	11		1000	NE
Selenium	2.67		4.8		2.48			1.47		6.14		390	NE
Silver	0.5		< 0.42		< 0.34			< 0.45		1.83		200	NE
Zinc	611		56.3		32.5			43.2		128		6000	NE
Total Metals by 7471B (mg/Kg):		NA		NA		NA	NA		NA		NA		
Mercury	0.729		0.085		< 0.076			0.18		3.42		23	NE
Total Metals by 7010 (mg/kg):		NA		NA		NA	NA		NA		NA		
Thallium	< 0.14		< 0.17		< 0.13			< 0.18		< 0.15		5.5	NE

Where necessary, the RIDEM objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

NE: No allowable limit is established for the substance

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)

a-d: Analyte concentration in this sample exceeds the RIDEM objectives for:

a: Direct Exposure in a residential area

d: GB Leachability

e-f: Although the analyte was not detected, the laboratory quantitation limit for this sample exceeds the RIDEM objectives for:

e: Direct Exposure in a residential area



Groundwater Laboratory Analytical Data January 31, 2012

Sample / Date		Concen	tration		RIDEM Method 1 Objective	RIDEM GB Groundwater UCL
	MW-1	MW-3	MW-4	MW-5	GB Groundwater	
A so allocke	1/21/2012	1/21/2012	1/21/2012	1/21/2012		
Analyte	1/31/2012	1/31/2012	1/31/2012	1/31/2012		
VOCs by 8260B (ug/L):	1 1	1 .	1 .	1 1	1 2	NT.
Vinyl Chloride	<1	<1	<1	<1	2	NE NE
Bromomethane	<1	<1	<1	<1	NE NE	NE NE
Chloroethane	<1 9.7	<1 <5	<1 <5	<1 <5	NE NE	NE NE
Acetone 1,1-Dichloroethene	<1	<1	<1	<1	7	23000
Carbon Disulfide	<1	<1	<1	<1	NE	NE
Methylene Chloride	<1	<1	<1	<1	NE NE	NE NE
tert-Butyl methyl ether	<1	<1	<1	<1	5000	NE NE
trans-1.2 Dichloroethene	<1	<1	<1	<1	2800	79000
1.1-Dichloroethane	<1	<1	<1	<1	NE	NE
2-Butanone	<5	<5	<5	<5	NE NE	NE NE
2,2-Dichloropropane	<1	<1	<1	<1	NE NE	NE NE
cis-1,2-Dichloroethene	<1	<1	<1	<1	2400	69000
Chloroform	<1	<1	<1	<1	NE	NE
Bromochloromethane	<1	<1	<1	<1	NE	NE
1,1,1-Trichloroethane	<1	<1	<1	<1	3100	68000
1,1-Dichloropropene	<1	<1	<1	<1	NE	NE
Carbon Tetrachloride	<1	<1	<1	<1	70	NE
Benzene	<1	<1	<1	<1	140	18000
1,2-Dichloroethane	<1	<1	<1	<1	110	670000
Trichloroethene	<1	<1	<1	<1	540	87000
1,2-Dichloropropane	<1	<1	<1	<1	3000	140000
Bromodichloromethane	<1	<1	<1	<1	NE	NE
Dibromomethane	<1	<1	<1	<1	NE	NE
4-Methyl-2-pentanone	<5	<5	<5	<5	NE	NE
Ethylene Dibromide	<1	<1	<1	<1	NE	NE
cis-1,3-Dichloropropene	<1	<1	<1	<1	NE 1700	NE 21000
Toluene	<1	<1	<1	<1	1700	21000
Trans-1,3-Dichloropropene	<1	<1 <1	<1	<1 <1	NE NE	NE NE
1,1,2-Trichloroethane 2-Hexanone	<1 <5	<1 <5	<1 <5	<5	NE NE	NE NE
Z-Hexanone Tetrachloroethene	<1	<1	<1	<1	150	NE NE
Chlorodibromomethane	<1	<1	<1	<1	NE	NE NE
Chlorobenzene	<1	<1	<1	<1	3200	56000
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	NE	NE
Ethylbenzene	<1	<1	<1	<1	1600	16000
Total Xylenes	<2	<2	<2	<2	NE	NE
Styrene	<1	<1	<1	<1	2200	50000
Bromoform	<1	<1	<1	<1	NE	NE
Isopropylbenzene	<1	<1	<1	<1	NE	NE
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	NE	NE
Bromobenzene	<1	<1	<1	<1	NE	NE
1,2,3-Trichloropropane	<1	<1	<1	<1	NE	NE
2-Chlorotoluene	<1	<1	<1	<1	NE	NE
n-Propylbenzene	<1	<1	<1	<1	NE	NE
1,3,5-Trimethylbenzene	<1	<1	<1	<1	NE	NE
4-Chlorotoluene	<1	<1	<1	<1	NE	NE
tert-Butylbenzene	<1	<1	<1	<1	NE	NE
1,2,4-Trimethylbenzene	<1	<1	<1	<1	NE	NE
sec-Butylbenzene	<1	<1	<1	<1	NE	NE NE
p-Isopropyltoluene	<1	<1	<1	<1	NE NE	NE NE
Chloromethane	<1	<1	<1	<1	NE NE	NE NE
tert butyl alcohol	<1	<1	<1	<1	NE NE	NE NE
1,3-Dichlorobenzene	<1	<1	<1	<1	NE NE	NE NE
Tetrahydrofuran	<1	<1	<1	<1	NE NE	NE NE
1,4-Dichlorobenzene	<1	<1	<1	<1	NE	NE

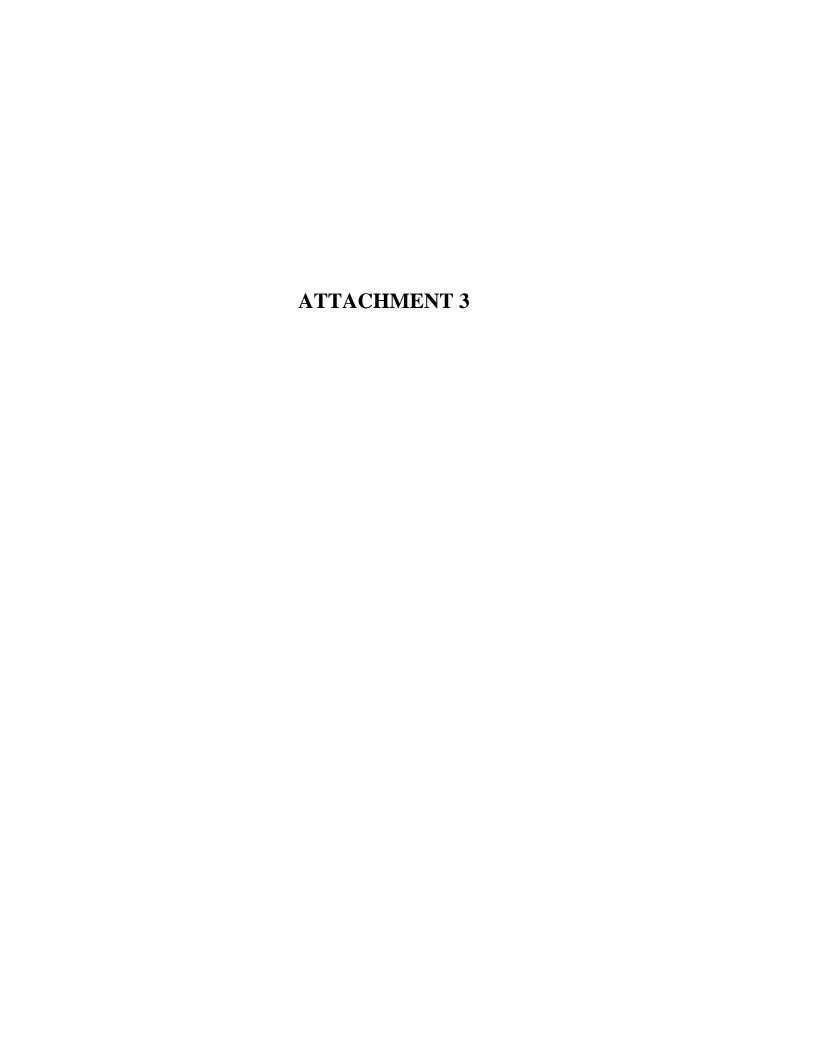
Groundwater Laboratory Analytical Data January 31, 2012 (Continued)

Sample / Date		Concen	tration		RIDEM Method 1 Objective	RIDEM GB Groundwater UCL
	MW-1	MW-3	MW-4	MW-5	GB Groundwater	Ground water CCL
Analyte	1/31/2012	1/31/2012	1/31/2012	1/31/2012		
Diethyl Ether	<1	<1	<1	<1	NE	NE
n-Butylbenzene	<1	<1	<1	<1	NE	NE
1,2-Dichlorobenzene	<1	<1	<1	<1	NE	NE
1,2-Dibromo-3-chloropropane	<1	<1	<1	<1	2	NE
1,2,4-Trichlorobenzene	<1	<1	<1	<1	NE	NE
Hexachlorobutadiene	<1	<1	<1	<1	NE	NE
Naphthalene	1.9	<1	<1	<1	NE	NE
1,2,3-Trichlorobenzene	<1	<1	<1	<1	NE	NE
Tert-amyl Methyl Ether	<1	<1	<1	<1	NE	NE
Dichlorodifluoromethane	<1	<1	<1	<1	NE	NE
1,3-Dichloropropane	<1	<1	<1	<1	NE	NE
Trichlorofluoromethane	<1	<1	<1	<1	NE	NE
Ethyl Tert-butyl ether	<1	<1	<1	<1	NE	NE
Diisopropyl Ether	<1	<1	<1	<1	NE	NE
1,4-Dioxane	<50	< 50	< 50	< 50	NE	NE
Total Trihalomethanes	<1	<1	<1	<1	NE	NE
Total Metals by 6010C (mg/L):	NA			NA		
Antimony		0.01	0.01		NE	NE
Arsenic		0.01	0.01		NE	NE
Beryllium		0.005	< 0.005		NE	NE
Cadmium		0.005	< 0.005		NE	NE
Chromium		0.09	0.065		NE	NE
Copper		0.22	0.24		NE	NE
Lead		0.425	2.64		NE	NE
Nickel		0.147	0.095		NE	NE
Selenium	[[0.1	0.07		NE	NE
Silver	<u> </u>	< 0.005	< 0.005		NE	NE
Zinc		0.46	1.39		NE	NE
Total Metals by 7471B (mg/L):						
Mercury		< 0.0002	< 0.0002		NE	NE
Total Metals by 7010 (mg/L):						
Thallium		< 0.002	< 0.002		NE	NE

Where necessary, the RIDEM objectives, in ppm, have been converted to ppb to match the laboratory reporting method.

NE: No allowable limit is established for the substance

<x: Indicates analyte concentration not detected at or above specified laboratory quantitation limit (x)



ηe	SAG	EE	NVI	RON	MEN	TAL, INC.	sc	DIL BORING / MONITOR	WELL CO	NSTRU	ICTION LOG
						DRILLED BY: Ma	lartin	GeoEnvironmental	WELL NUMBER:	B-1	
						DRILLING METHOD: 66	610D	T Geoprobe	PROJECT NUMBER:	S2244	
						SAMPLING METHOD: 4'	Macı	rocore	LOCATION:	Queen Newpo	Anne Sq., ort
						SCREENING INSTRUMENT: O	VM 5	80B	DATE:	1/19/12	2
						DEPTH		countered	LOGGED BY:	JD	
RISER:		TYPE	Ī			DIAMETER		LENGTH	WELL SEAL:		HOLE DIA.: 2"
SCREEN:		TYPE	: 		SLOT	DIAMETER		LENGTH	SAND PACK:		TOTAL DEPTH: ≈12'
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTIO	ON	SOILS	DESCRIPTI	ON	
	0 -										
S-1*	1 - 2 -	- - - _ 2'		Dry	ND	NO WELL INSTALLED		24" Dark brown, mostly fine Somaterial, moderately loose	AND with son	ne fine sil	t and organic
	3	_									
	4	_									
S-2A	5 - 6 -	_ - _ 2′		Dry	ND			4" Dark brown, mostly fine SA material, moderately loose	ND with some	e fine silt :	and organic
S-2B**	7	- - -		Dry	ND			20" Dark brown, fine and medievidence of weathered bedro			
	8 –	_ -						moderately loose			
S-3A	9 -	_ - _ 2′		Dry	ND			9" Dark grey, fine SILT and sa	nd mixed with	n layers o	f weathered rock
S-3B	11	- 		Dry	ND			36" Grey, layers of weathered	rock and slat	e-like ma	terial, dense
	12 -	-						Refusal @ 12'			
	13 —	_									
	14 —	_ -									
	15	<u> </u>									
	16	_									
	17	_ -									
	18	_									
	19	_									
	20 —	_						* Sample submitted for metals ** sample submitted for TPH 8		is	

Se	SAG	ΕE	NVI	RON	MEN	ITAL, INC.	SOIL BORING / MONIT	OR WELL CONS	STRUCTION LOG
						DRILLED BY: Marti	n GeoEnvironmental	WELL NUMBER:	3-2
					Ţ	DRILLING	DT Geoprobe	PROJECT	32244
					+	SAMPLING	acrocore	LOCATION: C	Queen Anne Sq., Iewport
						SCREENING INSTRUMENT: OVM	580B	DATE:	/19/12
						DEPTH TO WATER: Not 6	encountered	LOGGED BY: J	D
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"
SCREEN:		TYPE	•		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12'
SAMPLE NO.	ОЕРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	So	DILS DESCRIPTION	
	0 —								
S-1*	1	-		Dry	ND		36" Dark brown, mostly fin material, moderately loo		ine silt and organic
S-2*	2	_ 4′		Dry	ND	NO WELL INSTALLED			
S-3*	3	-		Moist	ND	INSTALLED	2" Pulverized rock with so clinkers10" Light brown, fine SAN		
	4	- - -				_			,
S-2A	5 - 6 -	_ _ _ 4′		Dry	ND		40" Light brownish grey, fi		
S-2B	7	- 		Dry	ND		8" Dark grey with brown till layers, moderately loose		silt with weathered rock
	8 —	_				_			
S-3A**	9 -	- - 4'		Dry	ND		12" Dark grey with brown rock layers, moderately		sand with weathered
S-3B	11 -	_		Dry	ND		36" Grey, layers of weather	ered rock material, s	oft and dense
	12	_					Refusal @ 12'		
	13	_							
	14 —	-							
	15	-							
	16	-							
	17 —	-							
	+	-							
	18 -	-							
	19 —	- - -					* Sample composited and ** sample submitted for TF		analysis;

⁵ e	SAGE	E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONITO	R WELL CON	NSTRUCTION LOG
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER:	B-3
						DRILLING METHOD: 66°	10DT Geoprobe	PROJECT NUMBER:	S2244
						SAMPLING METHOD: 4' N	Macrocore	LOCATION:	Queen Anne Sq., Newport
						SCREENING INSTRUMENT: OV	M 580B	DATE:	1/19/12
						DEPTH	t encountered	LOGGED BY:	JD
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"
SCREEN:		TYPE	-		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12'
SAMPLE NO.	DEPTH SAMPLE	RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		LS DESCRIPTIC	DN
S-1*	0 1 2 3 3 4 4 4	.75′		Moist	ND	NO WELL INSTALLED	45" Dark brown, fine SAND smooth, moderately loose		ganic material in first 4",
S-2A S-2B S-2C	5 +	.75'		Moist Dry Dry	ND ND ND		9" Dark brown, fine SAND a smooth, moderately loose 4" Dark brown, coarse SAN 32" Dark grey and light brow cobbles and layers of wea sand, moderately dense	D with crushed ro	ock and coal-like material
S-3A** S-3B	9 +	.75′		Dry Dry	ND ND		4" Dark grey and light brown cobbles and layers of wea sand, moderately dense 41" Dark grey, layers of wea	ther rock and a s	small amount of coarse
	12						* Sample submitted for meta ** sample submitted for TPH		

7e	SAG	E El	NVI	RON	MEN	ITAL, INC.	SOIL BORING / MONIT	OR WELL CO	INSTRUCTION LO	G
						DRILLED BY: Mar	tin GeoEnvironmental	WELL NUMBER:	B-4	
						DRILLING METHOD: 661	0DT Geoprobe	PROJECT NUMBER:	S2244	
						SAMPLING	acrocore	LOCATION:	Queen Anne Sq., Newport	
							И 580B	DATE:	1/19/12	
						DEPTH TO WATER: Not	encountered	LOGGED BY:	JD	
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	,
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈1	15′
SAMPLE NO.	рертн	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		DILS DESCRIPT	ION	
S-1*	0	3.75′		Dry	ND	NO WELL INSTALLED	24" Dark brown, fine SANI moderately dense	D and silt, with or	ganic material in first 4	",
S-2	5 \(\frac{1}{2}\)	3.75′		Dry	ND		No recovery			
S-3A	9 —			Dry	ND		1" Crushed cobble			
S-3B	´	3.75′		Dry	ND		5" Dark brown with some of soft weather rock	dark grey, fine SA	AND mixed with layers of	of
S-3C**	10 +			Dry	ND		22" Dark grey and black, f weathered rock (i.e., gra 8" Dark brown, fine SAND grey, weathered rock	phite), smooth/sr	mears, dense	rk
S-4	13 —			Dry	ND		45" Dark grey, weathered	rock material, sm	nooth, dense	
	15						Refusal @ 15'			
	16 $+$									
	17 +									
	+									
	18 +									
	19 —									
	20 🕂						* Sample submitted for me ** sample submitted for TF		sis	

7e	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CONS	TRUCTION LOG			
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-	5			
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER: S2	2244			
					Ī	SAMPLING	Macrocore	LOCATION: QI	ueen Anne Sq., ewport			
					Ī	SCREENING	′M 580B	DATE:	19/12			
					Ī	DEPTH	t encountered	LOGGED BY: J[
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"			
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH SAND TOTAL DEPTH: \$12'					
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		DILS DESCRIPTION				
	0 —	_										
	1 +	_										
S-1*	$_{2}$	3.75′		Dry	ND	NO WELL INSTALLED	45" Dark brown, fine SANI moderately loose	D and silt, with organi	c material in first 4",			
	3	-										
	4	-										
S-2A**	5	_		Dry	ND		36" Light brown, fine SAN	D and silt, some smal	I crushed cobbles and			
	6	_ 4′					layers of weathered rock	material, moderately	y dense			
S-2B	7	_		Dry	ND		12" Dark grey, layers of w	eathered rock, smootl	n/smears, graphite-like			
	8 🚽	-										
	9 🚽	-										
S-3	10	_ 3′		Dry	ND		36" Dark grey layers of we	eathered rock, materia	ıl, smooth, dense			
	11	_										
	12 -	-					Refusal @ 12'					
	13 +	-										
	14 +	-										
	15	-										
	16 —	-										
	17 —	-										
	18 —	-										
	19 —	_					* Sample submitted for me	stale analysis:				
	20 —	_					** sample submitted for TF					

Se.	SAGE	<u>-</u>	NVI	RON	MEN	TAL	, INC	C. 8	SOIL BO	ORING /	MONIT(OR WELL	CONST	RUCTIO	N LOG
						DRILLE	ED BY:	Marti	in GeoEı	nvironme	ental	WELL NUMBER	e: MW-	1 (B-6)	
						DRILLII METHC			DT Geo			PROJEC NUMBER	T	` '	
						SAMPL METHO	ING		acrocore			LOCATIO	Quee	en Anne S	Sq.,
						SCREE INSTRU	NING JMENT:	OVM	l 580B			DATE:	1/19/	12	
						DEPTH TO WA	1		encounte	ered		LOGGED BY:			
RISER:	PVC	<i>T</i>)	/PE S	СН 40			DIAME			LENGTH	3.5'	WELL SEAL:	BENTONITE	HOLE DIA.:	2"
SCREEN:	PVC	<i>T</i>)	/PE S	6сн 40	SLOT	0.010"	DIAME	ETER 2)" -	LENGTH	10'	SAND PACK:	FILTER SAND	TOTAL DEPTH:	15'
SAMPLE NO.	DEPTH (FEET) SAMPLE	RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENIN G RESULTS (ppm)		WELL STRUC NCRETE - ROAD B	CTION			SOI	LS DESCR		1	
	0 —			BENTO!	пте .				BENTONI	ТЕ					
S-1A	1 +			Moist	ND				18" Dar	k brown, f	ine SAND	and silt, cru	shed rock,	loose	
S-1B	2 +2	,,		Moist	ND		2 2		2" Light	tan, fine	SAND, loos	se			
S-1C*	3 +			Moist	ND				2" Dark	brown, fir	ne SAND a	nd silt, mixe	ed with crus	hed stone	/cobble
	4 +														
S-2A	5 +			Moist	ND	SAND		SAND	12" Ligh	it brown, f	fine SAND	and silt, mo	oderately loc	ose	
S-2B	6 + 3	"		Moist	ND							dium SAND ers, modera	, crushed co	obble and	brick,
S-2C	7 +			Dry	ND	FILTER		FILTER			•		hered rock,	loose	
	8 +														
S-3A	9 +			Dry	ND				42" Ligh	ıt tan to liç	ght reddish	, fine SAND	and silt, m	ixed with s	soft,
	$10 \stackrel{\top}{+} 4$, ′							layere	d, weathe	ered rock				
S-3B	11 +			Dry	833							eathered ro	ck with som leum odor	e dark gre	ey,
	12 —														
S-4A**	13 + 4	 در		Dry	1050					~ .			lium and fin		•
S-4B	14 + 4	•		Dry	47	Well	set at	13.5'		-	•		ner rock, ve		_
	15								D-t-	@ 45:					
	16 —	ļ							Refusal @ ≈15′						
	+														
	17 —														
	18 —														
	19 —	ļ													
	20 +	ļ						* Sample composited and submitted for metals analysis; ** sample submitted for TPH & VOC analysis							

Se	SAG	EE	NVI	RON	MEN	ITAL, INC. s	OIL BORING / MONIT	OR WELL CO	NSTRU	ICTION LOG
						DRILLED BY: Martin	n GeoEnvironmental	WELL NUMBER:	B-7	
						DRILLING METHOD: 66101	OT Geoprobe	PROJECT NUMBER:	S2244	
					Î	SAMPLING	crocore	LOCATION:		Anne Sq.,
					 	SCREENING INSTRUMENT: OVM		DATE:	1/19/1:	
					1	DEPTH	ncountered	LOGGED BY:	JD	
RISER:		TYPE	•		•	DIAMETER	LENGTH	WELL SEAL:		HOLE DIA.: 2"
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:		TOTAL DEPTH: ≈12'
SAMPLE NO.	ОЕРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	s	OILS DESCRIPTI	ON	
S-1*	0	- - - 3'		Dry	ND	NO WELL INSTALLED	36" Dark brown, fine SAN traces of crushed stone			
S-2A S-2B** S-2C	5 - 6 - 7 - 8 -	_ _ 3.5′ _		Moist Moist Moist	ND ND ND		6" Dark brown, fine SANE traces of crushed stone 16" Light brown, fine SAN 16" Light tan, pulverized r	and some brick-lil ID and silt, dense	ke materi	al throughout
S-3A	9 —	- - - 4'		Dry	ND		12" Light tan, pulverized r	rock, (hard), and c	oarse SA	ND, loose
S-3B	11 -	- -		Dry	ND		36" Light grayish white, p mixed throughout	ulverized rock (hai	rd), with o	coarse SAND
	12 +						Refusal @ 12'			
	13 +	-								
	14 +	-								
	15 +	-								
	16 +	-								
	17 —	-								
	18	-								
	19	_								
	* Sample submitted for metals analysis; ** sample submitted for TPH & VOC analysis									

e SA	<i>GE</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CON	STRUCTION LOG
					DRILLED BY: Mari	tin GeoEnvironmental	WELL NUMBER:	3-8
					DRILLING METHOD: 6610	ODT Geoprobe	PROJECT NUMBER:	S2244
					SAMPLING	acrocore	I OCATION:	Queen Anne Sq., Newport
					SCREENING	л 580B	DATE:	/19/12
				Ī	DEPTH	encountered	LOGGED	ID
RISER:	TYPE	.			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"
SCREEN:	TYPE	.		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈4-6′
SAMPLE NO. DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		OILS DESCRIPTION	ı
S-1* 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			Dry	ND	NO WELL INSTALLED	20" Dark brown, fine SAN some small pieces of brute 4" Dark grey, slate-like, we not recovery Refusal @ 4-6" * Sample submitted for me	ick and crushed rock eathered rock, hard	

se.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CONST	RUCTION LOG	
						DRILLED BY: Ma	artin GeoEnvironmental	WELL NUMBER: B-9		
						DRILLING METHOD: 6610DT Geoprobe		PROJECT NUMBER: \$22		
						SAMPLING METHOD: 4' Macrocore			een Anne Sq., wport	
						SCREENING INSTRUMENT: OVM 580B		DATE: 1/19/12		
						DEPTH TO WATER: Not encountered		LOGGED BY: JD		
RISER:	ER: TYPE			•	DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"		
SCREEN:	TYPE SI				SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12′	
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTIO		SOILS DESCRIPTION		
	0 -	_								
	1	1 +		Dry ND						
S-1*	2 + 2'				ND	NO WELL INSTALLED		24" Dark brown, fine SAND and silt, with organic material in first 4", traces of brick/charred wood and glass, loose		
	3	-						.oou ana glace, leece		
	4	- -								
S-2A	5	- -		Dry	ND		4" Dark brown, fine SAND	and silt, traces of brick	c/charred wood and	
	6	_3.75′		,			glass, loose	and only nadoc of 2110.	0.10.100	
S-2B	7	_		Dry	ND		41" Light tan, fine SAND a	and silt, smooth, dense		
S-3A	8 -	- - -		Dry	ND		4" Dark brown, fine SAND	and silt, traces of brick	/charred wood and	
S-3B	9 _	_ _ 4′		Dry	ND			glass, loose (collapse) 12" Light tan, fine SAND and silt, smooth, dense		
S-3C	10	 -		Dry	ND		12" Dark grey, layered, we	eathered rock, smooth,	soft, dense	
S-3D**	11 -	_		Dry	ND		20" Dark grey, fine SAND	and silt, with weathered	d rock, smooth,	
	12 -	- -					soft, dense Refusal @ 12'			
	13	_								
	14	_ -								
	15	_								
	16 –	_								
	17	_								
	18	-								
	19 —	_								
	20 —	-					* Sample submitted for me ** sample submitted for Tr			

Se	SAG	ΕE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MON	IITOR WELL CONSTRU	JCTION LOG		
						DRILLED BY: Ma	artin GeoEnvironmental	WELL NUMBER: B-10			
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER: \$2244	<u> </u>		
						SAMPLING	Macrocore	LOCATION: Queen Anne Sq., Newport			
						SCREENING	/M 580B	DATE: 1/23/1			
						DEPTH	ot encountered	LOGGED BY: JD			
RISER:		TYPE	•		•	DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"		
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	LENGTH SAND TOTAL DEPTH:			
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTIO	N				
	0 -										
S-1*	1 - 2 -	- - - _ 3′		Dry	ND	NO WELL INSTALLED	36" Dark brown, fine Samoderately loose	AND and silt, some brick and	small cobbles,		
	3 -	- - -				INSTALLED	moderately loose				
	4 -	-									
S-2A	5 - 6 -	_ _ _ 3′		Dry	ND		32" Light brown to tan, fine SAND and silt, dense				
S-2B**	7	- -		Dry	ND		4" Light tan, weathered	d rock, soft, dense			
	8 —	_									
S-3	9 -	- - - 4'		Dry	ND		48" Dark tan to grey, w	reathered rock and shale, soft	t, dense		
	11 -	- - -									
	12 -	-					Refusal @ 12'				
	13 -	-									
	14 -	-									
	15 -	-									
	16 -	-									
	17 —	-									
	18	-									
	19 — 20 —	- - -					* Sample submitted for ** sample submitted for				

Se	SAG	ΕE	NVI	RON	MEN	ITAL, INC.	OIL BORING / MONIT	OR WELL CO	NSTRUCTION LOG	
						DRILLED BY: Marti	n GeoEnvironmental	WELL NUMBER:	B-11	\exists
					Ţ	DRILLING	DT Geoprobe	PROJECT NUMBER:	S2244	
					Î	SAMPLING	crocore	LOCATION: Queen Anne Sq., Newport		
					†	SCREENING INSTRUMENT: OVM		DATE: 1/23/12		
					İ	DEPTH	ncountered	LOGGED BY:	JD	
RISER:		TYPE			•	DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:		TYPE			SLOT	DIAMETER LENGTH SAND PACK:			TOTAL DEPTH: ≈11.5	,
SAMPLE NO.	ОЕРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	Se	OILS DESCRIPTIO	ON	
	0 —									
	1 -	-					No recovery			
	2	-				NO WELL INSTALLED				
	3 -	-				INOTALLED				
	4	- -				_				
	5	-								
S-2*/**	6	_ _ 2′		Dry	ND		24" Dark grey and brown,			
	7	-					of weathered rock, soft a	ina dense, some tr	aces of brick-like materia	11
	8 —	-				-				
	9 —	-								
S-3	10	- _ 4′		Dry	ND		48" Dark grey, weathered	rock, soft and smo	ooth, dense	
	11 -	-								
	12 —	_					Refusal @ 11.5'			
	13	- -								
	14 -	-								
	15	-								
	16	-								
	+	-								
	17 —	-								
	18 —	-								
	19 — 20 —	- - -					* Sample submitted for me ** sample submitted for TI	etals analysis; PH & VOC analysi	s	

Se	SAG	<i>E</i> E	NVI	RON	MEN	ITAL, INC.	SOIL BORING / MONIT	OR WELL CONST	RUCTION LOG	
						DRILLED BY: Mart	in GeoEnvironmental	WELL NUMBER: B-12	2	
					Ī	DRILLING METHOD: 6610	DDT Geoprobe	PROJECT NUMBER: \$22	44	
					Ī	SAMPLING	acrocore	LOCATION: Queen Anne Sq., Newport		
					Ī	SCREENING	1 580B	DATE: 1/23/12		
					Ī	DEPTH	encountered	LOGGED BY: JD		
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12′	
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	s	OILS DESCRIPTION		
	0 -	_				-				
S-1A*	1 -	- - - _ 2′		Dry	ND	NO WELL	4" Dark brown, organics a	and fine SAND and silt		
S-1B*	3 -	- 		Dry	ND	INSTALLED	20" Dark brown, fine SAN evidence of brink and co	ID and silt with crushed on ash, moderately loos		
S-2A**	5 —	- - -		Dry	ND		10" Dark brown, fine SAN	ID and silt with crushed	cobbles and	
S-2B	6 -	_ 3′ - -		Dry	ND		oal ash, moderately loos in, fine SAND and silt mi			
	8 -	- - -					of weather rock, dense			
S-3	9 - 10 - 11	- - 4' -		Dry	ND		48" Light grayish tan, som weather rock, soft, smooth		xed with mostly	
	11 -	- - -					Refusal @ 12'			
	13 -	_ -								
	15	- 								
	16 — 17 —	- - -								
	18	- - -								
	19 —	- - -					* Sample composited and ** sample submitted for T		nalysis;	

Sec.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	FOR WELL CONSTI	RUCTION LOG	
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-13	3	
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER: \$22	44	
					Ī	SAMPLING	Macrocore	LOCATION: Queen Anne Sq., Newport		
					Ī	SCREENING INSTRUMENT: OV	′M 580B	DATE: 1/23/12		
						DEPTH TO WATER: NO	t encountered	LOGGED BY: JD		
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12'	
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION		
	0 -									
S-1A*	1 - 2 -	- - - _ 3′		Dry	ND	NO WELL	26" Dark brown, fine SAN coal, loose	ND and silt mixed with tra	ces of brick and	
S-1B*	3 -	- 		Dry	ND	INSTALLED	10" Light brown, fine SAN	ND and silt, dense, smoot	th	
	4	_ -								
S-2A**	5 -	_ - _ 4′		Dry	ND		36" Light brown, fine SAN rock, smooth, soft, den:		crushed, weathered	
S-2B	7	- -		Dry	ND		12" Light grey and tan, w	eathered rock, soft, smoo	oth, very dense	
	8 -	- - -								
S-3	10 -	2′ 		Dry	ND		24" Light gray and tan, w	eathered rock, soft, smoo	oth, very dense	
	11 -	-					Defeat © 400			
	13	-					Refusal @ 12'			
	14	-								
	15	-								
	+	-								
	16 -	-								
	17 —	-								
	18 —	-								
	19 —	- - -					* Sample composited and ** sample submitted for T		alysis;	

Se	SAG	EE	NVI	RON	MEN	ITAL, INC. s	OIL BORING / MONI	TOR WELL CONSTR	UCTION LOG	
						DRILLED BY: Martir	n GeoEnvironmental	WELL NUMBER: B-14		
					Ţ	DRILLING	OT Geoprobe	PROJECT NUMBER: \$224	4	
					†	SAMPLING	crocore	LOCATION: Queen Anne Sq., Newport		
					Î	SCREENING INSTRUMENT: OVM		DATE: 1/23/12		
					Ī	DEPTH TO WATER: Not e	ncountered	LOGGED BY: JD		
RISER:		TYPE	·			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:	1	TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12'	
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION		
	0 —	_								
S-1A*	1	- - -		Dry	ND		18" Dark brown, fine SAI	ND and with organic mater	ial, fairly loose	
	2	_ 3′				NO WELL INSTALLED				
S-1B*	3	_		Dry	ND		18" Light brown, fine SA	ND and silt, dense, smooth	1	
	4	_				-				
	5	_								
S-2	6	3′		Dry	ND		36" Light tan, fine SAND rock, soft and smooth	and silt mixed with dense	layers of crushed,	
	7	-								
	8	-				_				
S-3A**	9	-		Dry	ND		18" Light tan, fine SAND	and silt mixed with dense	layers of crushed,	
	10	_ 2′					rock, soft and smooth		•	
S-3B	11	-		Dry	ND		6" Dark grey, weathered	rock, soft and smooth, ver	y dense	
	12	_					Refusal @ 12'			
	13	_								
	14	-								
	15	-								
	16	-								
	17 —	- -								
	18	-								
	19 —									
	20 —	- -					* Sample composited an ** sample submitted for	d submitted for metals ana TPH & VOC analysis	lysis;	

Se	SAC	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MON	ITOR WELL CO	NSTRU	CTION LOG
						DRILLED BY: Mai	rtin GeoEnvironmental	WELL NUMBER:	B-15	
						DRILLING	IODT Geoprobe	PROJECT NUMBER:	S2244	
					Ī	SAMPLING	//acrocore	LOCATION:		Anne Sq.,
						SCREENING	M 580B	DATE:	1/23/12	
					t	DEPTH	t encountered	LOGGED BY:	JD	
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:		HOLE DIA.: 2"
SCREEN:		TYPE	7		SLOT	DIAMETER	LENGTH	SAND PACK:		TOTAL DEPTH: ≈3'
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTI	ION	
	0 -	_								
	1 -	- -								
	2	_				NO WELL INSTALLED	Granite-like in bottom of	f drive point		
	3	_					Refusal @ ≈3′			
	4	- -					Roldon & 20			
	5	- -								
	6	-								
	7	-								
	8 -	- -								
	9	- -								
	10 -	- -								
	11	_								
	12 —	_								
	13	_								
	14 —	- -								
	15	-								
	16 —	-								
	17 —									
	18 —	-								
	19 —	- -								
	20 —	-								

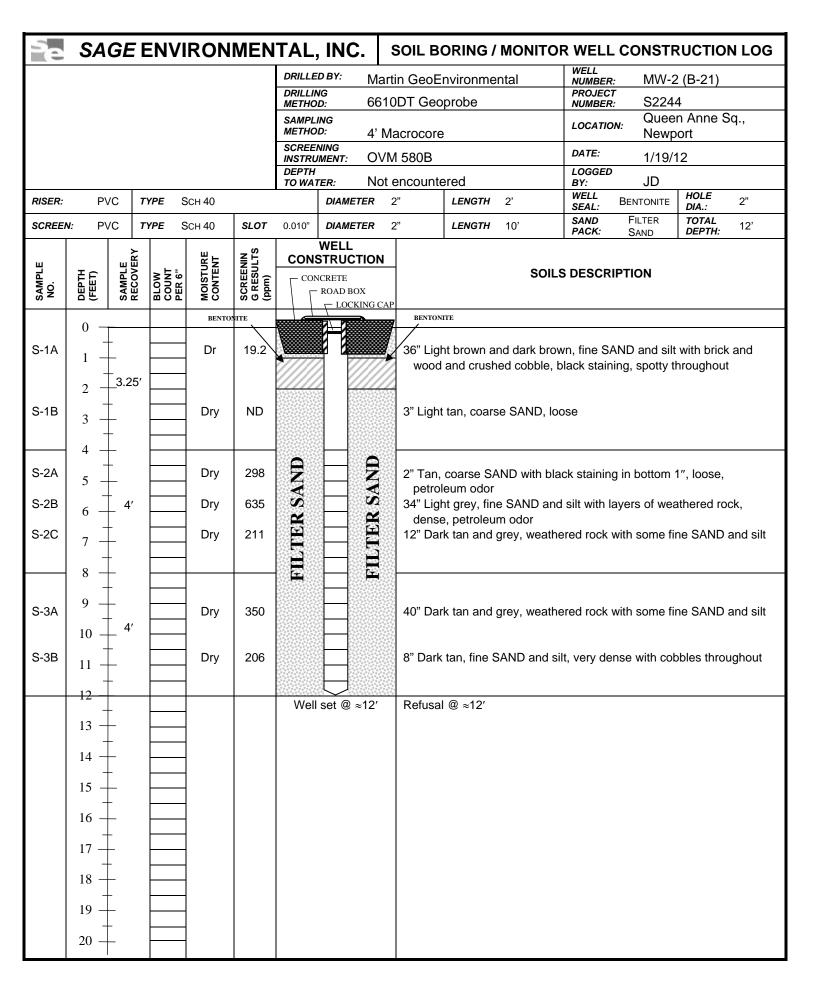
Se	SAC	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MON	ITOR WELL CO	NSTRU	CTION LOG
						DRILLED BY: Mai	rtin GeoEnvironmental	WELL NUMBER:	B-16	
						DRILLING METHOD: 661	ODT Geoprobe	PROJECT NUMBER:	S2244	
					Ī	SAMPLING	//acrocore	LOCATION:		Anne Sq., rt
						SCREENING	M 580B	DATE:	1/23/12	
					Ī	DEPTH	encountered	LOGGED BY:	JD	
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:		HOLE DIA.: 2"
SCREEN:	2	TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:		TOTAL DEPTH: ≈3'
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTI	ION	
	0 -									
	1 -	-								
	2	_				NO WELL INSTALLED	Granite-like in bottom of	f drive point		
	3	_					Refusal @ ≈3′			
	4	- -					Roldon & 20			
	5	_								
	6	- -								
	7	-								
	8 -	- -								
	9	- -								
	10 -	- -								
	11	_								
	12 —	_								
	13	_								
	14 —	- -								
	15	-								
	16 —	-								
	17 —									
	18 —	-								
	19 —	-								
	20 —	-								

30	SAG	ΕE	NVI	RON	MEN	ITAL, INC. s	OIL BORING / MONIT	TOR WELL CONST	RUCTION LOG	
						DRILLED BY: Martir	n GeoEnvironmental	WELL NUMBER: B-1	7	
					Ţ	DRILLING	OT Geoprobe	PROJECT NUMBER: \$22	244	
					ļ	SAMPLING	crocore	LOCATION: Queen Anne Sq., Newport		
						SCREENING INSTRUMENT: OVM	580B	DATE: 1/23/12		
						DEPTH TO WATER: Not e	ncountered	LOGGED BY: JD		
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:		TYPE	•		SLOT	DIAMETER	LENGTH	SAND PACK:	<i>TOTAL DEPTH:</i> ≈11.5′	
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	s	SOILS DESCRIPTION		
S-1A* S-1B*	0 1	3.5′		Dry Dry	ND ND	NO WELL INSTALLED	10" Dark brown, fine SAN dense 8" Crushed rock from Ge 24" Dark brown, fine SAN moderately loose	oprobe	·	
S-2A S-2B S-2C	4 — 5 — 6 — 7 — 8 —	42"		Dry Dry Dry	ND ND ND		6" Dark brown, fine SANI moderately loose 6" Light tan, fine SAND a 30" Light tan, weathered and silt, dense	nd silt, very dense and s	smooth	
S-3A	9 —	4′		Dry	ND		10" Light tan, weathered and silt, dense	rock, soft and smooth w	ith some fine SAND	
S-3B**	11 +	-		Dry	ND		38" Light grey mixed with smooth, some fine SAN	tan, layers of weathered ID and silt, mixed throug		
	12 — 13 — 14 — 15 — 16 — 17 — 18 — 20 —						* Sample composited and ** sample submitted for T		nalysis;	

Se	SAG	<i>E</i> E	NVI	RON	MEN	ITAL, INC.	SOIL BORING / MONIT	OR WELL CON	NSTRUCTION LOG		
						DRILLED BY: Mar	tin GeoEnvironmental	WELL NUMBER:	B-18		
					Ī	DRILLING METHOD: 661	0DT Geoprobe	PROJECT NUMBER:	S2244		
						SAMPLING	lacrocore	LOCATION: Queen Anne Sq., Newport			
					Ī	SCREENING	M 580B	DATE: 1/23/12			
					Ī	DEPTH	encountered	LOGGED BY: JD			
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"		
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈11.5′		
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		OILS DESCRIPTIO	DN		
	0										
S-1A*	1 -	- - - _ 3′		Dry	ND	NO WELL	3" Dark brown, fine SANE	and silt, with organ	nic material, dense		
S-1B*	3 -	- 		Dry	ND	INSTALLED	33" Dark brown, fine SAN moderately loose	ID and silt, traces of	f brick and small cobbles,		
	4	_									
S-2A	5 –	-		Dry	ND			4" Dark brown, fine SAND and silt, traces of brick and small cobbles, moderately loose			
	6 -	_ 2′		Dry	ND						
S-2B	8 —	-		Dry	ND		20" Light grey and tan, fin and smooth, dense	ne SAND and silt, m	nostly weathered rock, soft		
S-3A**	9 -	- - - _ 2'		Dry	ND		12" Light grey and tan, fin and smooth, dense	ne SAND and silt, m	nostly weathered rock, soft		
S-3B	11 -	-		Dry	ND		12" Light to dark grey, we	athered rock, soft a	and smooth, very dense		
	12 —						Refusal @ 11.5'				
	13	-									
	14	-									
	15	-									
	16 –	-									
	17 —	-									
	18	- -									
	+	-									
	19 - 20 -	-					* Sample composited and ** sample submitted for T				

90	SAGE	E	NVI	RON	MEN	ITAL, INC. s	OIL BORING / MONIT	TOR WELL CON	STRUCTION LOG		
						DRILLED BY: Martir	n GeoEnvironmental	WELL NUMBER:	3-19		
					1	DRILLING	OT Geoprobe	PROJECT	S2244		
					†	SAMPLING	crocore	LOCATION: Queen Anne Sq., Newport			
						SCREENING INSTRUMENT: OVM	580B	DATE: 1/23/12			
						DEPTH TO WATER: Not e	ncountered	LOGGED BY: J	D		
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"		
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈12'		
SAMPLE NO.	DEPTH	RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	s	SOILS DESCRIPTION	ı		
S-1A* S-1B* S-1C*	0	75′		Dry Dry	ND ND	NO WELL INSTALLED	10" Dark brown, fine SAN dense 22" Dark brown, fine SAN small cobbles, loose 10" Light brown, fine SAN	ND and silt, with brick-	like material, coal and		
S-2A	5 <u>+</u> 6 <u>+</u> 3.	75′		Dry Dry	ND ND		32" Light brown, fine SAND and silt, smooth, dense				
S-2B S-3A**	8 + 9 + 10 + 3	3′		Dry	ND ND		10" Light tan, weathered 18" Light tan, weathered				
S-3B	10 + 1			Dry	ND		18" Light grey, weathered	d rock, soft and smoo	th, very dense		
	12						* Sample composited and ** sample submitted for T		s analysis;		

3 e	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MON	ITOR WELL CO	NSTRU	ICTION LOG	
						DRILLED BY: Mai	rtin GeoEnvironmental	WELL NUMBER:	B-20		
						DRILLING	0DT Geoprobe	PROJECT NUMBER:	S2244		
					Ī	SAMPLING	/lacrocore	LOCATION:		Anne Sq.,	
						SCREENING	M 580B	DATE: 1/23/12			
					T	DEPTH	encountered	LOGGED BY:	JD	-	
RISER:		TYPE			I	DIAMETER	LENGTH	WELL SEAL:		HOLE DIA.: 2"	
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:		TOTAL DEPTH: ≈3'	
		>	TNO		<u>5</u>	WELL CONSTRUCTION	ı			, , ,	
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)		SOILS DESCRIPTION				
S S	DE	SA	BL	80	SC RE (PP						
	0 -	-									
	1 -	- -				NO WELL					
	2	-				NO WELL INSTALLED	Granite-like in bottom of	f drive point			
	3						Refusal @ ≈3′				
	4	_ -									
	5	_									
	6	-									
	7	-									
	8	- -									
	9	-									
	10	-									
	+	-									
	11 -	-									
	12 —	-									
	13 —	-									
	14 +	- -									
	15	-									
	16 —	_									
	17	_									
	18	_									
	19 —	-									
	20 —	- -									



Se.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	FOR WELL CONSTR	RUCTION LOG	
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-22		
						DRILLING METHOD: 66°	10DT Geoprobe	PROJECT NUMBER: \$224	14	
						SAMPLING METHOD: 4' [Macrocore	LOCATION: Quee New	en Anne Sq., port	
						SCREENING INSTRUMENT: OV	′M 580B	DATE: 1/23/12		
						DEPTH TO WATER: NO	t encountered	LOGGED BY: JD		
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"	
SCREEN:	·	TYPE	: 		SLOT	DIAMETER	LENGTH	TOTAL ≈11.5- DEPTH: 12'		
SAMPLE NO.	DЕРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION		
	0 7									
S-1A	1	_		Dry	ND		8" Dark brown, fine SANI	D and silt, with organic ma	aterial, dense	
	2	_ 3′		•		NO WELL INSTALLED		, 0	·	
S-1B	3 -	- 		Dry	ND		28" Dark brown and tan, present	fine SAND and silt, with b	rick-like and coal	
	4	_ -								
S-2A	5	_		Dry	ND		8" Light tan, fine SAND a	nd silt, dense, smooth		
	6	_ _ 4′								
S-2B	7	- -		Dry	ND		40" Tan, fine SAND and	silt with mostly weathered	rock, dense	
	8 -	- -								
S-3	9 –	- - 4'		Dry	ND		48" Tan, fine SAND and	ailt with moathy woothored	rook dongo	
0-3	10 -	- '1 -		Ыу	ND		40 Tan, line SAND and s	siit with mostry weathered	Tock, delise	
	11 -	_					Refusal @ 11.5-12'			
	12 -	-					rtordodi © 11.0 12			
	13 -	- -								
	14 -	-								
	15 -	-								
	16 –	-								
	17 —	-								
	18 —	-								
	19 —	-								
	20 —	_								

Se.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CONSTR	RUCTION LOG			
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-23				
						DRILLING METHOD: 661	ODT Geoprobe	PROJECT NUMBER: \$224	14			
						SAMPLING	//acrocore	LOCATION: Que	en Anne Sq., port			
					Ī	SCREENING	M 580B	DATE: 1/23				
						DEPTH TO WATER: Not	encountered	LOGGED BY: JD				
RISER:		TYPE	Ē			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"			
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈11′			
SAMPLE NO.	DЕРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	SOILS DESCRIPTION					
	0	_										
S-1A	1 -	_		Dry	ND		8" Dark brown, fine SAND	and silt, with organic ma	aterial, dense			
	2	3′				NO WELL INSTALLED			·			
S-1B	3	_		Dry	ND		28" Dark brown and tan, fi present	ne SAND and silt, with b	rick-like and coal			
	4	_										
S-2A	5	- -		Dry	ND							
	6	_ _ 4′										
S-2B	7	_ -		Dry	ND		40" Tan, fine SAND and si	It with mostly weathered	l rock, dense			
	8 -	- -										
0.0	9 _	- - <u>-</u> .			ND							
S-3	10 –	_ 2′ -		Dry	ND		48" Tan, fine SAND and si	It with mostly weathered	rock, dense			
	11 -						Refusal @ 11'					
	12 –	-										
	13	_ -										
	14	-										
	15	_										
	16	_										
	17	_ -										
	18 —	_ -										
	19	-										
	20 –											

Se	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	TOR WELL CONST	RUCTION LOG				
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-24	ļ				
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER: \$22	44				
					Ī	SAMPLING	Macrocore	LOCATION: Que	en Anne Sq., port				
					Ī	SCREENING	'M 580B	DATE: 1/24					
						DEPTH TO WATER: NO	t encountered	LOGGED BY: JD					
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"				
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈11'				
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION							
	0 -												
S-1A	1 -	- - - 4′		Dry	ND	NO WELL	2" Dark brown, fine SAN	D and silt with organic ma	iterial, dense				
S-1B	3	_ - _		Dry	ND	INSTALLED	46" Dark brown, fine SAN	ND and silt, brick present					
	4	_											
S-2A	5	- - - 4′		Dry	ND								
S-2B	6 - 7 -	- - -		Dry	ND		46" Light tan, fine SAND dense	and silt, mostly weathere	d rock, soft, smooth,				
	8	_											
S-3	9 -	- - _ 2'		Dry	ND		48" Light tan, fine SAND dense	and silt, mostly weathere	d rock, soft, smooth,				
	11	_					Refusal @ 11'						
	12	- - -											
	13	_											
	14	_											
	15	_											
	16	- -											
	17 —	- -											
	18 —	- -											
	19 —	- -											
	20 —	-											

Se	SAC	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CO	NSTRUCTION LOG			
						DRILLED BY: Mai	rtin GeoEnvironmental	WELL NUMBER:	B-25			
					Ī	DRILLING METHOD: 661	0DT Geoprobe	PROJECT NUMBER:	S2244			
					Ī	SAMPLING	/lacrocore	LOCATION:	Queen Anne Sq., Newport			
					Ī	SCREENING	M 580B	DATE:	1/24/12			
					t	DEPTH	encountered	LOGGED BY:	JD			
RISER:		TYPE	•		.	DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"			
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 9'			
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		ON				
	0	_										
S-1A	1 -	- - - 21		Dry	ND	NO WELL	20" Dark brown, fine SAN	ID and silt mixed w	ith organic material, dense			
S-1B	2 -	_ 2′		Dn	ND	INSTALLED	2" Crushed concrete					
9-1B	3 -	_		Dry	ND		2" Crushed concrete					
	4 -	-										
S-2A	5 — 6 —	_ - _ 3′		Dry	ND		shed brick, Styrofoam and					
S-2B	7	-		Dry	ND		12" Crushed, hard rock m	ixed with layers of	weathered, soft rock			
S-3	8 -	_ _ _ 2′		Dry	ND		24" Crushed, hard rock m dense layers of weather		weathered, soft rock with			
	9	-					Refusal @ 9'					
	10 -	_										
	11 -	- -										
	12 -	_										
	13 -	_										
	14 -	-										
	15 -	-										
	16 —	-										
	17 —	-										
	18											
	19 –	_										
	20 —	_										

Se.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CON	ISTRUCTION LOG				
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER:	B-26				
						DRILLING METHOD: 661	0DT Geoprobe	PROJECT NUMBER:	S2244				
					Ī	SAMPLING	Macrocore		Queen Anne Sq., Newport				
						SCREENING INSTRUMENT: OV	M 580B	DATE:	1/24/12				
						DEPTH TO WATER: Not	encountered	LOGGED BY:	JD				
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"				
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 10'				
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION					
	0 -	_											
S-1A	1 -	-		Dry	ND		6" Dark brown, fine SAND and silt mixed with organic material, dense						
S-1B	2 -	_ _3.5′		Dry	ND	NO WELL	15" Dark brown, fine SANI	SAND and silt with brick and black coarse sand					
S-1C	3 -	_		Dry	ND	INSTALLED							
	4 -	_											
S-2A	_	_		Dry	ND		20" Crushed/pulverized co	ncrete					
S-2B	5 -	_ - 4′		Dry	ND	4" Light brown, fine SAND and silt with small amount of cot							
S-2C	6 -	- -		Dry	ND		crushed rock						
	7 —	-		,				,, .					
S-3	8 -	_ - 2′		Dry	ND		24" Light tan, fine to mediu	ım SAND mostly o	crushed rock				
	9 –	- - -		,			21 Light tari, into to modifi	0, 1100 ty 0	radiled reek				
	10 -	_					Refusal @ 10'						
	11 -	-											
	12 —	- -											
	13 –	_											
	14 -	_											
	15	- -											
	16 –	- -											
	17 —	- -											
	18 —	-											
	19 —	-											
	-	-											
	20 —	_											

Se.	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONI	TOR WELL CONST	RUCTION LOG				
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-2	7				
						DRILLING METHOD: 661	IODT Geoprobe	PROJECT NUMBER: \$22	44				
						SAMPLING METHOD: 4' N	Macrocore		een Anne Sq., vport				
						SCREENING INSTRUMENT: OV	M 580B	DATE: 1/24	I/12				
						DEPTH TO WATER: No	t encountered	LOGGED BY: JD					
RISER:		TYPE	Ē			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"				
SCREEN:	·	TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 9'				
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	SOILS DESCRIPTION						
	0 -												
S-1A	1 -	_		Dry	ND		10" Dark brown, fine SAI	ND and silt mixed with or	ganic material, dense				
S-1B	2 -	3′		Dry	ND	NO WELL INSTALLED	14" Tan, coarse to mediu	14" Tan, coarse to medium SAND with cobbles, trace gravel, loose					
S-1C	3 -	-		Dry	ND		10" Brown, medium to fir weathered rock and so		shed layers of				
	4 –	-					weathered rock and so	me blick, delise					
S-2A	5 – 6 –	- - - 3′		Dry	ND		d concrete						
S-2B	7 -	- 		Dry	ND		amounts of brick and						
S-3A S-3B	8 -	_ _ 1′		Dry Dry	ND ND		8" Dark brown, medium to fi 4" Tan, crushed, soft, we Refusal @ 9'						
	10 -	- -											
	11 - 12 -	- -											
	13 -	- -											
	14 -	<u>-</u>											
	15 –	<u>-</u>											
	16 –	<u>-</u>											
	17 —	- -											
	18 —	-											
	19 —	_											
	20 –	_											

32	SAGE	EN	IVI	RON	MEN	TAL	. INC	C. (SOIL BO	ORING A	/ MONIT	OR WEL	L CONST	RUCTIO	N LOG
					_	DRILLE	-		in GeoEı	vironma	ental	WELL	:D. \\/\//	-3 (B-28)	
						DRILLII	NG		DT Geo		zi ilai	PROJEC	CT	,	
						SAMPL METHO	ING		acrocore	Jiobe		LOCATI	Que	en Anne	Sq.,
						SCREE	NING					DATE:			
						INSTRU DEPTH			1 580B			LOGGE	1/24	/ 12	
RISER:	PVC	TYPI	F 9	сн 40		TO WAT		≈11′)"	LENGTH	1.5'	BY: WELL	JD BENTONITE	HOLE	3"
SCREE	_	TYPE		CH 40	SLOT	0.010" DIAMETER 2"				LENGTH	10'	SEAL: SAND	FILTER	TOTAL	11.5'
SCREET							WELL PACK: SAND DEP					DEPTH:	11.5		
SAMPLE NO.	DEPTH (FEET) SAMPLE	RECOVER Y BLOW	COUNT PER 6"	MOISTURE	SCREENIN G RESULTS (ppm)	CON	STRUC NCRETE - ROAD E	CTION	SOILS DESCRIPTION						
	0 —			BENTO	пте .				BENTONI	ГЕ					
S-1A	1 +			Dry	ND				8" Dark	brown, fii	ne SAND a	and silt with	organic ma	ıterial, den	se
S-1B	2 + 2'	,		Dry	ND				4" Dark	brown, fii	ne SAND a	and silt with	ı black, coar	se SAND	
S-1C	3 +			Dry	ND				12" Cru	shed stor	ne (hard) ar	nd layers o	f soft, tan, w	eathered	rock
	4 🕂			_						Country of atoms (hours) and laware of acts weathered real, dames					
S-2A	5 + 2	, -		Dry	ND	NAS	12" Crushed stone (hard) and la						f soft, weath	ered rock	dense
S-2C	7 —			Dry	ND	FILTER !		FILTER	12" Dar	k brown, t	fine SAND	and silt, m	oderately lo	ose	
S-3A	8 + 9 -			Dry	ND	S.			10" Dar	c grey, cr	ushed, wea	athered roo	ck, soft, den	se	
S-3B	10 + 4	,		Dry	ND				14" Ligh	t brown,	fine SAND	and silt, de	ense		
S-3C	11 +			Wet	ND						medium to rock, soft,		.ND mixed v	vith crushe	d layers of
	12 —					Well	set @	≈11.5′	Refusal	@ ≈11.5	′				
	13 +														
	14 +														
	15 \pm														
	16 🛨														
	17 —														
	18 —														
	19 —	F													
	20 +	F													

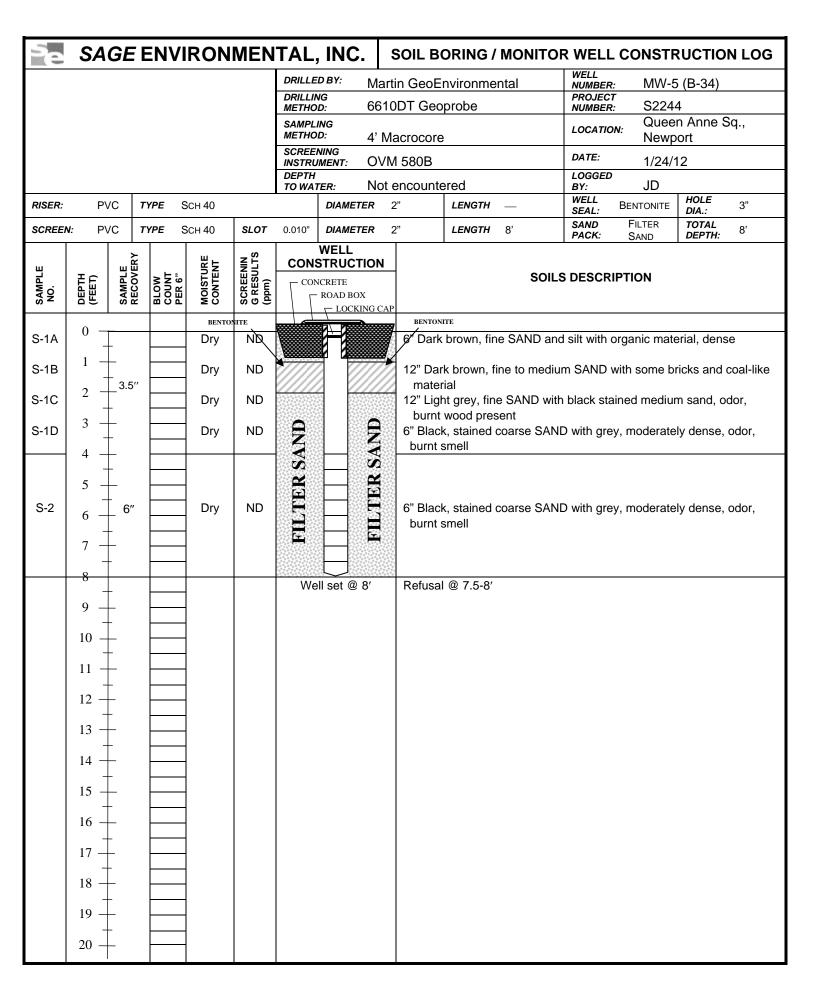
'ne	SAG	<i>E</i> E	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONI	TOR WELL CONS	TRUCTION LOG				
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-	29				
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER: \$2	244				
						SAMPLING METHOD: 4' N	Macrocore		ueen Anne Sq., ewport				
						SCREENING INSTRUMENT: OV	/M 580B	DATE: 1/2	24/12				
						DEPTH TO WATER: NO	t encountered	LOGGED BY: JD)				
RISER:		TYPE	•			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"				
SCREEN:	,	TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 9.5'				
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	SOILS DESCRIPTION						
	0 -												
S-1A	1 -	_		Dry	ND		8" Dark brown, fine SAND and silt, some organic material						
	2 -	1′				NO WELL INSTALLED							
S-1B	3 -	-		Dry	ND	INSTALLED	4" Hard, crushed rock						
	4 —	<u>-</u>											
	5 –	_											
	6 -	-					No recovery						
	7 -	-											
S-3A	8 -	- _ _ 26"		Dry	ND		14" Dark brown, fine to n	nedium SAND with som	e brown and black				
S-3B	9 –	_ 20 _		Dry	ND		coarse sand, small cob	bles throughout	e brown and black				
3-36	10 -			Ыу	ND		Refusal @ 9.5'	ck, nard, very dense					
	11 -	<u>-</u>											
	12 —	- -											
	13 -	<u>-</u>											
	14 —	<u>-</u>											
	15 –	- -											
	16 –	_											
	17 —	- -											
	18 —	-											
	19 —	_											
	20 —	_											
	20 —	-											

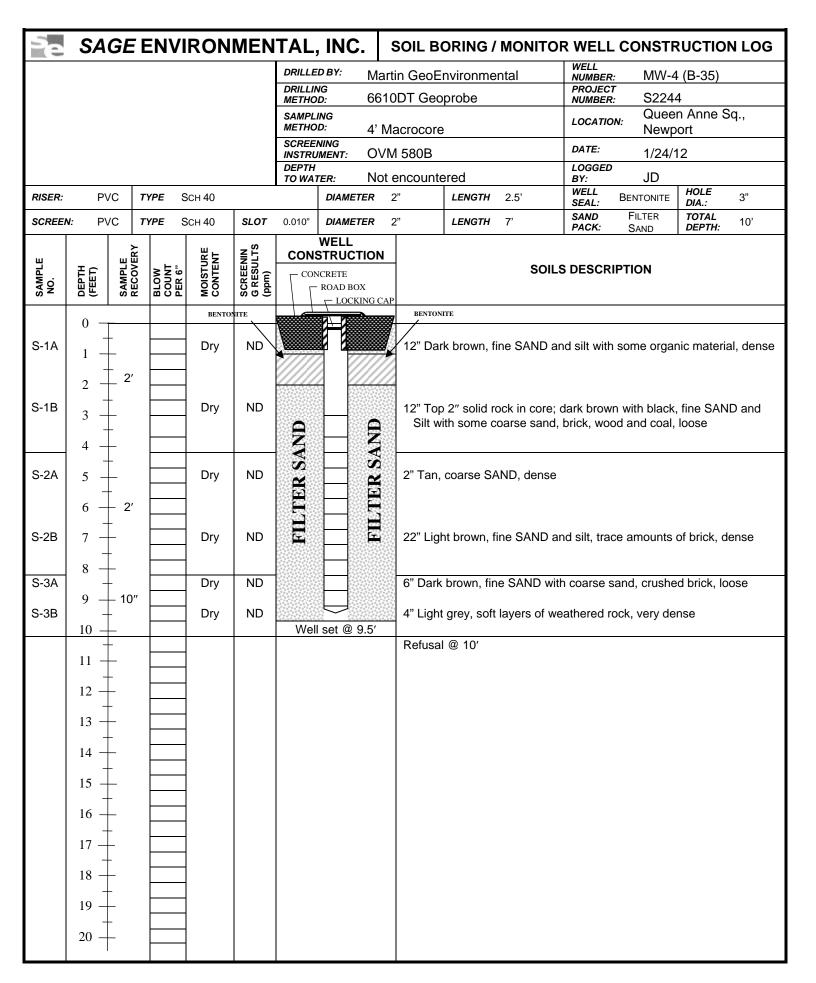
7e	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CONST	RUCTION LOG			
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER: B-3	0			
						DRILLING METHOD: 661	10DT Geoprobe	PROJECT NUMBER: \$22	244			
					Ī	SAMPLING	Macrocore		een Anne Sq., wport			
					Ī	SCREENING	M 580B	DATE:	4/12			
						DEPTH TO WATER: No	t encountered	LOGGED BY: JD				
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"			
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: ≈11.5′			
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		OILS DESCRIPTION				
	0 -											
S-1A	1 - 2 -	_ _ _ 3′		Dry	ND	NO WELL	4" Dark brown, fine SAND	and silt with organic m	aterial, dense			
S-1B	3 -	- 		Dry	ND	INSTALLED	32" Dark brown, fine to me	edium SAND with trace	of crushed cobble			
	4	_										
S-2A	5 - 6 -			Dry	ND		22" Dark brown, fine to medium SAND with some coa					
S-2B	7	- -		Dry	ND		8" Layers of grey, weather	red rock, very dense				
	8	_										
S-3	9 -	_ _ _ 2′		Dry	ND		24" Layers of grey, weather	ered rock, very dense				
	11	- -										
	12 —						Refusal @ 11.5'					
	13 -	- -										
	14 —	- -										
	15	- -										
	16	- -										
	17 —	-										
	18 —	-										
	19 —	-										
	20 —	- 										

Se.	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BOP	RING / MONITOI	R WELL CO	NSTRU	JCTION LOG	
						DRILLED BY: Ma	artin GeoEnv	ironmental	WELL NUMBER:	B-31		
						DRILLING METHOD: 66	10DT Geopre	obe	PROJECT NUMBER:	S2244		
						SAMPLING	Macrocore		LOCATION:	Queen Newpo	Anne Sq., ort	
					Ī	SCREENING INSTRUMENT: O\	/M 580B		DATE:	1/24/1	2	
						DEPTH	t encountere	d	LOGGED BY:	JD		
RISER:		TYPE				DIAMETER		LENGTH	WELL SEAL:		HOLE DIA.: 2"	
SCREEN:		TYPE			SLOT	DIAMETER		LENGTH	SAND PACK:		TOTAL DEPTH: ≈12'	
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION	N					
	0 ¬											
S-1A	1 -	_		Dry	ND		2" Dark brown, fine SAND and silt with organic material					
	2	_ _ 2′				NO WELL INSTALLED						
S-1B	3	_ 		Dry	ND		22" Dark	brown, fine to medi	um SAND with	brick and	d glass, loose	
	4	_										
S-2A	5 –	<u> </u>		Dry	ND		d glass, loose					
	6 —	_ 2′ -		_								
S-2B	7	_		Dry	ND		6" White/	grey, layered rock, l	hard			
	8 —	_ -										
S-3A	9 –	_ - 		Dry	ND		12" Dark	brown, fine to medi	um SAND with	brick and	d glass, loose	
S-3B	10 –	_ 4′ -		Dry	ND		36" Tan	layered, weathered	rock soft ver	, dense		
0 02	11 -	_		Diy	110		Jo Tan,	layered, weathered	TOCK, SOIL, VEL	y derise		
	12	_					Refusal (@ 12′				
	13 -	-										
	14	- -										
	15	_										
	16 –	_										
	17 –	- -										
	18 -	_										
	19 –	-										
	20 —	_										

ηe	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONITO	R WELL CO	NSTRUCTION LOG			
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER:	B-32			
					Ī	DRILLING METHOD: 66°	10DT Geoprobe	PROJECT NUMBER:	S2244			
						SAMPLING	Macrocore	LOCATION:	Queen Anne Sq., Newport			
							M 580B	DATE:	1/24/12			
						DEPTH TO WATER: No	t encountered	LOGGED BY:	JD			
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"			
SCREEN:		TYPE			SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 7'			
SAMPLE NO.	DEРТН	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		LS DESCRIPTION	ON			
	0 -											
S-1A	1	- -		Dry	ND		4" Dark brown, fine SAND a	nd silt with orga	nic material			
S-1B	2	_ 3′		Dry	ND	NO WELL	22" Dark brown, fine to med	ium SAND, som	ne silt with brick and coal,			
S-1C	3	- 		Dry	ND	INSTALLED	loose 10" Dark grey, coarse SAND and pulverized rock					
	4	_										
S-2A	5	_ _ _ 3′		Dry	ND		12" Dark brown, fine SAND	and silt, dense				
S-2B	6 -	- -		Dry	ND		ered rock					
	,	-					Refusal @ 7'					
	8 -	-										
	9 –	-										
	10	_										
	11 -	_										
	12 —	- -										
	13 -	-										
	14 —	-										
	15 —	-										
	16 –	-										
	4	-										
	17	- -										
	18 —	_										
	19 —	_										
	20 —	_										

γe	SAG	EE	NVI	RON	MEN	TAL, INC.	SOIL BORING / MONIT	OR WELL CO	NSTRUCTIO	N LOG			
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER:	B-33				
						DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER:	S2244				
						SAMPLING METHOD: 4' N	Macrocore	LOCATION:	Queen Anne Newport	Sq.,			
						SCREENING INSTRUMENT: OV	M 580B	DATE:	1/24/12				
						DEPTH TO WATER: NO	t encountered	LOGGED BY:	JD				
RISER:		TYPE	Ī			DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.:	2"			
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH				
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE CONTENT	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION					
	0 7												
S-1A	1	_		Dry	ND		4" Dark brown, fine SAND	and silt with orga	nic material				
S-1B	2	3′		Dry	ND	NO WELL INSTALLED	30" Dark brown, fine SAN coarse sand	D and silt with brid	k present and da	ark brown			
S-1C	3 -	- -		Dry	ND	INOTALLED	2" Solid rock in core						
	4	- -											
S-2A	5 -	- - - _ 2′		Dry	ND		ith small cobbles	s and					
S-2B	7	- 		Dry	ND		10" Tan, soft, weathered r	rock, very dense					
S-3A	8 —	_		Dry	ND		6" Dark brown, fine SAND	and silt, dense					
S-3B	9 -	_ 2′ -		Dry	ND		18" Tan, soft, weathered r	ock layers and ha	rd cobbles throu	ghout,			
	10 -	_					Refusal @ 10'						
	11 -	- -											
	12	_											
	13	_											
	14	_											
	15	_											
	16	- -											
	17	-											
	18 —	-											
	19 —	-											
	20 —	-											





Se	SAG	ΕE	NVI	RON	MEN	ITAL, INC.	SOIL BORING / MON	ITOR WELL CO	NSTRUCTION LOG				
						DRILLED BY: Ma	rtin GeoEnvironmental	WELL NUMBER:	B-36				
					Ī	DRILLING METHOD: 66	10DT Geoprobe	PROJECT NUMBER:	S2244				
						SAMPLING	Macrocore	LOCATION:	Queen Anne Sq., Newport				
					 		′M 580B	DATE:	1/24/12				
						DEPTH TO WATER: NO	t encountered	LOGGED BY:	JD				
RISER:		TYPE				DIAMETER	LENGTH	WELL SEAL:	HOLE DIA.: 2"				
SCREEN:		TYPE	Ī		SLOT	DIAMETER	LENGTH	SAND PACK:	TOTAL DEPTH: 12'				
SAMPLE NO.	DEPTH	SAMPLE RECOVERY	BLOW COUNT PER 6"	MOISTURE	SCREENING RESULTS (ppm)	WELL CONSTRUCTION		SOILS DESCRIPTION					
	0 7												
S-1A	1	-		Dry	ND		24" Dark brown, fine SA	ND and silt with sor	me organic material				
S-1B	2	_ _3.5′		Dry	ND	NO WELL INSTALLED	6" Light tan, medium to	fine SAND, loose					
S-1C	3	-		Dry	ND	INSTALLED	12" Dark brown, fine to	12" Dark brown, fine to medium SAND with fine silt, evidence of brick					
	4	_				_							
	5	-											
S-2	6	_ 2.5′		Dry	ND		30" Dark brown, fine to	medium SAND with	fine silt, evidence of brick				
	7	- -											
	8 –	_				_							
S-3A	9	_		Dry	ND		4" Dark brown, fine to m	nedium SAND with f	ine silt, evidence of brick				
	10	_ 2′											
S-3B	11	<u> </u>		Dry	ND		20" Light grey to tan, we	eathered rock, soft,	very dense				
	12 -	-					Refusal @ 12'						
	13 —	-											
	14 —	_											
	15	_											
	16	_											
	17	_											
	18 —	-											
	19 —	-											
	20 —	- -											
	20												