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Bellevue, Washington 98007
tel: 425 519-8300
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March 2, 2020

Roger McCracken, Director
Gateway Investments LLC
10400 NE 4th Street, Suite 2225
Bellevue, WA. 98004

Subject: Winter 2020
Post Dismissal Groundwater Monitoring Report
MasterPark/Former Tac-Sea Motel
International Boulevard
SeaTac, Washington

Dear Mr. McCracken:

Introduction

This letter transmits the results of CDM Smith's groundwater monitoring conducted in February 2020 for the above-referenced site. This work is being conducted under the amended Consent Decree No. 00-2-02909-8KNT between the State of Washington Department of Ecology (Ecology) and Linda T.Y. Lee and Gateway Investments LLC filed on December 4, 2014, which requires two groundwater monitoring events (1 dry season and 1 wet season) at 5 year intervals until it can be demonstrated that cleanup levels have been met in accordance with the Model Toxics Control Act (MTCA).

Site Description and Background Information

The site is located in SeaTac, Washington near the north end of Sea-Tac International Airport as shown on **Figure 1**. The property is currently being operated as a MasterPark parking lot. An air sparge (AS) and soil vapor extraction (SVE) remediation system operated on the site between August 2000 and April 5, 2011. The purpose of the remediation system was to remove tetrachloroethene (PCE) from soil and groundwater. The system was turned off after it was determined that declining PCE concentrations in groundwater had reached asymptotic conditions. The former configuration of the remediation system AS/SVE wells and groundwater monitoring wells are shown on **Figure 2**. In accordance with the Amended Consent Decree, the remediation system AS/SVE wells and groundwater monitoring wells, with the exception of MWA and MWC, were abandoned in May 2014. The above ground portions of the remediation system were decommissioned in July 2014. Monitoring wells MWA and MWC were retained for the post-dismissal confirmation groundwater monitoring.



Groundwater Monitoring

Groundwater samples were collected from MWA and MWC on February 11, 2020. Depth to groundwater was measured in each well prior to purging. Historical and the current depths to groundwater and water table elevations are summarized in **Table 1**. Prior to sampling, MWA was purged of stagnant water within the well casing and sandpack using a bladder pump. Due to the depth to groundwater and insufficient tubing, clean nylon twine and a bailer were used to purge MWC of stagnant water within the well prior to sampling. Temperature, pH, and specific conductance were monitored during purging to check for stabilization. Historical and present groundwater parameter measurements following purging are summarized in **Table 2**.

Groundwater samples were collected in laboratory-supplied glass bottles containing hydrochloric acid as a preservative. The samples were packed in a chilled container and were transported under chain-of-custody protocol to OnSite Environmental in Redmond, Washington. Groundwater samples were analyzed for a limited list of chlorinated volatile organic compounds (cVOCs) by EPA Method 8260. The laboratory report is included in **Attachment A** and the data are summarized in **Table 3**.

Findings

The groundwater elevation, at approximately 310.1 feet, was consistent with historical groundwater elevation data. The stabilized field measured parameters of specific conductance, pH, and temperature were within typical ranges, although the temperature was lower than has been seen in the past. PCE was detected in both wells at 4.3 micrograms per liter ($\mu\text{g/L}$) in MWA and 9.2 $\mu\text{g/L}$ in MWC. A degradation product of PCE, cis-1,2-dichloroethene (cis-1,2-DCE), was detected in MWC at 0.21 $\mu\text{g/L}$, just above the method reporting limit of 0.2 $\mu\text{g/L}$.

Conclusions and Recommendations

PCE concentrations remain asymptotic and have been less than 10 $\mu\text{g/L}$ for over 10 years. Occasionally, PCE concentrations dip below the MTCA Method A cleanup level of 5 $\mu\text{g/L}$, as occurred at MWA during this sampling event. During the initial years (2000/2001) cis-1,2-DCE was detected in MWC until concentrations dropped to less than 2 $\mu\text{g/L}$ – the method reporting limit at the time. At MWC cis-1,2-DCE was again detected, but the present concentration is still less than 2 $\mu\text{g/L}$; it is just that the laboratory's current method reporting limit is an order of magnitude lower.

As was noted above, MWA was purged and sampled using a bladder pump and at MWC a Teflon bailer was used. The higher PCE concentration was detected in MWC, which indicates there is no value in using specialized sampling pumps. Based on this, CDM Smith recommends continuing sampling using disposable bailers, which is consistent with the past.



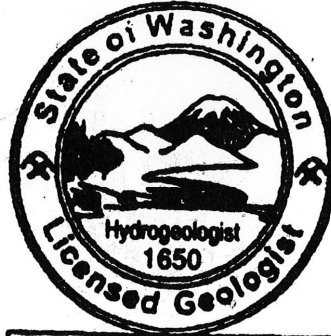
Mr. Roger McCracken
March 2, 2020
Page 3 of 3

We appreciate the opportunity to provide continuing services on this project. If you have any questions, please feel free to call me at (425) 519-8300.

Sincerely,

A handwritten signature in blue ink, appearing to read "Pamela J. Morrill".

Pamela J. Morrill, LHG, PMP
Project Manager
CDM Smith Inc.



Attachments

cc: Mr. Harry Grant, Fox Rothschild LLP
A rectangular nameplate with a black border containing the text "Pamela Jeanne Morrill" in a black serif font.

Tables

Table 1**Groundwater Elevation Data**

Gateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Monitoring Well I.D.	Date	Reference Elevation (ft bgs)	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft)
MWA	10/03/00	384.17	72.59	311.58
	12/13/00		70.84	313.33
	01/29/01		71.46	312.71
	02/13/01		71.49	312.68
	05/10/01		73.18	310.99
	08/22/01		74.44	309.73
	11/29/01		75.04	309.13
	03/12/02		75.09	309.08
	07/16/02		74.80	309.37
	11/05/02		74.87	309.30
	02/19/03		75.40	308.77
	05/22/03		75.10	309.07
	9/9/2003		75.75	308.42
	12/09/03		76.20	307.97
	03/09/04		75.57	308.60
	06/08/04		75.55	308.62
	07/16/04		75.90	308.27
	09/24/04		76.00	308.17
	12/15/04		76.18	307.99
	03/30/05		76.22	307.95
	06/30/05		76.15	308.02
	08/16/05		76.60	307.57
	09/28/05		76.64	307.53
	01/12/06		76.98	307.19
	04/12/06		75.93	308.24
	07/26/06		76.05	308.12
	10/31/06		75.80	308.37
	01/29/07		75.53	308.64
	03/28/07		75.28	308.89
	05/04/07		74.90	309.27
	08/28/07		75.10	309.07
	12/05/07		74.92	309.25
	03/19/08		74.55	309.62
	07/08/08		74.95	309.22
	10/16/08		75.42	308.75
	01/20/09		75.57	308.60
	04/29/09		75.35	308.82
	08/06/09		75.78	308.39
	11/18/09		75.85	308.32
	02/24/10		75.53	308.64
	04/08/10		75.23	308.94
	04/09/10		75.39	308.78
	07/06/10		74.90	309.27
	10/25/10		75.10	309.07
	06/28/11		73.62	310.55
	05/15/14		74.05	310.12
	09/17/14		74.48	309.69
	02/11/20		74.04	310.13

Table 1**Groundwater Elevation Data**

Gateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Monitoring Well I.D.	Date	Reference Elevation (ft bgs)	Depth to Groundwater (ft bgs)	Groundwater Elevation (ft)
MWC	10/03/00	385.44	72.59	312.85
	12/13/00		72.10	313.34
	01/29/01		72.66	312.78
	02/13/01		72.72	312.72
	05/10/01		74.31	311.13
	08/22/01		75.61	309.83
	11/29/01		76.24	309.20
	03/12/02		76.34	309.10
	07/16/02		76.00	309.44
	11/05/02		NM	NM
	02/19/03		76.70	308.74
	05/22/03		76.35	309.09
	9/9/2003		76.88	308.56
	12/09/03		77.34	308.10
	03/09/04		76.78	308.66
	06/08/04		76.82	308.62
	07/16/04		76.98	308.46
	09/24/04		77.10	308.34
	12/17/04		77.25	308.19
	03/30/05		77.35	308.09
	06/30/05		77.17	308.27
	08/16/05		77.68	307.76
	09/28/05		77.70	307.74
	01/12/06		78.10	307.34
	04/12/06		77.02	308.42
	07/26/06		77.20	308.24
	10/31/06		77.08	308.36
	01/29/07		76.82	308.62
	03/28/07		76.45	308.99
	05/04/07		76.00	309.44
	08/28/07		76.28	309.16
	12/05/07		76.00	309.44
	03/19/08		75.97	309.47
	07/08/08		76.22	309.22
	10/16/08		76.68	308.76
	01/20/09		76.82	308.62
	04/29/09		77.05	308.39
	08/06/09		76.90	308.54
	11/18/09		77.03	308.41
	02/24/10		76.85	308.59
	04/08/10		76.31	309.13
	04/09/10		76.51	308.93
	07/06/10		76.00	309.44
	10/25/10		76.24	309.20
	06/28/11		74.85	310.59
	05/15/14		75.32	310.12
	09/17/14		75.74	309.70
	02/11/20		75.34	310.10

Notes:

Based on City of SeaTac vertical control benchmark ST-19 located on the southeast corner of S. 167th Street and International Highway. Benchmark has an elevation of 403.85 feet, North American Vertical Datum of 1988 (NAVD88).

ft bgs - feet below ground surface.

ft - feet

NM - not measured.

Table 2**Stabilized Groundwater Parameters**

Gateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Monitoring Well I.D.	Date Sampled	Specific Conductance (μmhos/cm)	pH (standard units)	Temperature (°C)
MWA	10/31/00	340	6.50	13.1
	01/29/01	440	6.53	11.0
	05/10/01	390	6.44	13.9
	08/23/01	280	6.30	12.9
	11/29/01	405	5.72	12.0
	04/15/02	250	6.91	12.3
	07/16/02	492	5.77	13.0
	11/05/02	345	6.25	13.2
	02/19/03	332	6.34	11.5
	05/22/03	331	6.66	12.6
	09/09/03	283	6.42	13.2
	12/09/03	279	6.15	11.3
	03/09/04	309	5.95	12.7
	06/08/04	355	6.22	13.7
	09/14/04	287	6.29	12.6
	12/15/04	321	6.75	13.3
	03/30/05	310	6.39	12.8
	06/30/05	323	6.08	13.6
	09/28/05	179	6.16	13.3
	01/12/06	202	6.11	10.6
	04/12/06	402	4.82	12.7
	07/26/06	313	5.64	14.5
	10/31/06	298	5.87	12.6
	01/29/07	306	5.52	12.2
	05/04/07	292	5.53	12.2
	08/28/07	228	5.53	14.8
	12/05/07	235	5.19	11.8
	03/19/08	208	5.57	11.8
	07/08/08	202	6.13	14.2
	10/16/08	298	5.28	13.1
	01/20/09	218	6.14	12.2
	04/29/09	257	6.15	13.3
	08/06/09	290	6.10	13.3
	11/18/09	237	6.33	18.9
	02/24/10	289	6.41	12.7
	07/06/10	260	6.10	13.7
	10/25/10	241	5.92	12.3
	06/28/11	248	5.96	16.2
	05/15/14	293	5.81	14.2
	09/17/14	301	5.88	13.4
	02/11/20	178	6.23	6.2

Table 2**Stabilized Groundwater Parameters**

Gateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Monitoring Well I.D.	Date Sampled	Specific Conductance (μmhos/cm)	pH (standard units)	Temperature (°C)
MWC	10/31/00	510	6.59	14.0
	01/29/01	560	6.56	11.5
	05/10/01	380	6.58	13.5
	08/23/01	370	6.58	13.2
	11/29/01	NS	NS	NS
	04/15/02	NS	NS	NS
	07/16/02	NS	NS	NS
	11/05/02	NS	NS	NS
	02/19/03	495	6.65	11.5
	05/22/03	391	6.76	12.6
	09/09/03	330	6.99	13.3
	12/09/03	459	6.42	10.7
	03/09/04	517	6.23	12.5
	06/08/04	431	6.92	13.7
	09/14/04	324	7.25	12.7
	12/15/04	404	6.98	13.1
	03/30/05	520	7.37	13.0
	06/30/05	452	6.98	14.0
	09/28/05	522	6.77	14.4
	01/12/06	589	6.65	10.4
	04/12/06	616	6.42	12.7
	07/26/06	542	6.42	13.9
	10/31/06	460	6.10	12.2
	01/29/07	475	5.96	12.0
	05/04/07	473	6.15	11.9
	08/28/07	425	6.15	14.0
	12/05/07	445	5.89	11.6
	03/19/08	380	6.59	12.7
	07/08/08	256	6.71	14.3
	10/16/08	394	5.90	13.3
	01/20/09	376	5.85	11.7
	04/29/09	251	6.74	12.8
	08/06/09	405	6.49	13.1
	11/18/09	395	6.71	17.6
	02/24/10	442	6.97	12.7
	07/06/10	431	6.60	13.7
	10/25/10	393	6.31	12.2
	06/28/11	417	6.22	16.1
	05/15/14	281	6.15	13.8
	09/17/14	268	6.18	13.5
	02/11/20	270	6.42	8.2

Notes:

μmhos/cm - micromhos per centimeter

°C - degrees Celsius.

Table 3

Volatile Organic Compounds in GroundwaterGateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Well I.D.	Date Sampled	EPA Methods 8010 or 8260			
		Tetrachloro-ethene	Trichloro-ethene	cis -1,2-Dichloroethene	Vinyl Chloride
µg/L					
Onsite Monitoring Wells					
MWA	10/31/00	140	<5	9	<2.0
	01/29/01	150	<5	6	<2.0
	05/10/01	200	<5	7	<2.0
	08/23/01	190	<5	6	<2.0
	11/29/01	140	<5	5	<2.0
	04/15/02	66	<2	<2	<2.0
	07/16/02	180	<2	4	<2.0
	11/05/02	54	<2	<2	<2.0
	02/19/03	47	<2	<2	<2.0
	05/22/03	45	<2	<2	<2.0
	09/09/03	43	<2	<2	<2.0
	12/09/03	40	<2	<2	<2.0
	03/09/04	24	<2	<2	<2.0
	06/08/04	20	<2	<2	<2.0
	09/14/04	24	<2	<2	<2.0
	12/15/04	10	<2	<2	<2.0
	03/30/05	11	<2	<2	<2.0
	06/30/05	10	<2	<2	<2.0
	09/28/05	19	<2	<2	<2.0
	01/12/06	15	<2	<2	<2.0
	04/12/06	5	<2	<2	<2.0
	07/26/06	6	<2	<2	<0.20
	10/31/06	13	<2	<2	<0.20
	01/29/07	8	<2	<2	<0.20
	05/04/07	4	<2	<2	<0.20
	08/28/07	7	<2	<2	<0.20
	12/05/07	8	<2	<2	<0.20
	03/19/08	5	<2	<2	<0.20
	07/08/08	7	<2	<2	<0.20
	10/16/08	7	<2	<2	<0.20
	01/20/09	7	<2	<2	<0.20
	04/29/09	4	<2	<2	<0.20
	08/06/09	4.7	<2	<2	<0.20
	11/18/09	8.5	<2	<2	<0.20
	02/24/10	7.5	<2	<2	<0.20
	07/06/10	5.5	<2	<2	0.20
10/25/10	7.0	<2	<2	<0.20	
06/28/11	5.5	<2	<2	<0.20	
05/15/14	5.5	<2	<2	<0.20	
09/17/14	6.1	<2	<2	<0.20	
02/11/20	4.3	<0.2	<0.2	<0.20	

Table 3**Volatile Organic Compounds in Groundwater**Gateway Investment LLC/Former Tac-Sea Motel - Compliance Monitoring
SeaTac, Washington

Well I.D.	Date Sampled	EPA Methods 8010 or 8260			
		Tetrachloro-ethene	Trichloro-ethene	cis -1,2-Dichloroethene	Vinyl Chloride
		µg/L			
MWC	10/31/00	100	<5	9	<2.0
	01/29/01	160	<5	8	<2.0
	05/10/01	180	<5	8	<2.0
	08/23/01	130	<5	8	<2.0
	11/29/01	NS	NS	NS	<2.0
	04/15/02	NS	NS	NS	<2.0
	07/16/02	NS	NS	NS	<2.0
	11/05/02	NS	NS	NS	<2.0
	02/19/03	33	<2	<2	<2.0
	05/22/03	11	<2	<2	<2.0
	09/09/03	8	<2	<2	<2.0
	12/09/03	16	<2	<2	<2.0
	03/09/04	20	<2	<2	<2.0
	06/08/04	7	<2	<2	<2.0
	09/14/04	5	<2	<2	<2.0
	12/15/04	15	<2	<2	<2.0
	03/30/05	4	<2	<2	<2.0
	06/30/05	5	<2	<2	<2.0
	09/28/05	6	<2	<2	<2.0
	01/12/06	9	<2	<2	<2.0
	04/12/06	5	<2	<2	<2.0
	07/26/06	6	<2	<2	<0.20
	10/31/06	7	<2	<2	<0.20
	01/29/07	7	<2	<2	<0.20
	05/04/07	6	<2	<2	<0.20
	08/28/07	7	<2	<2	<0.20
	12/05/07	8	<2	<2	<0.20
	03/19/08	4	<2	<2	<0.20
	07/08/08	4	<2	<2	<0.20
	10/16/08	8	<2	<2	<0.20
	01/20/09	7	<2	<2	<0.20
	04/29/09	3	<2	<2	<0.20
	08/06/09	5	<2	<2	<0.20
	11/18/09	8.6	<2	<2	<0.20
	02/24/10	7.1	<2	<2	<0.20
	07/06/10	7.5	<2	<2	<0.20
	10/25/10	7.9	<2	<2	<0.20
	06/28/11	5.4	<2	<2	<0.20
	05/15/14	6.1	<2	<2	<0.20
	09/17/14	6.1	<2	<2	<0.20
	02/11/20	9.2	<0.2	0.21	<0.20
Cleanup Level ^a		5	5	--	0.2

Notes:

Boxed value exceeds the cleanup level.

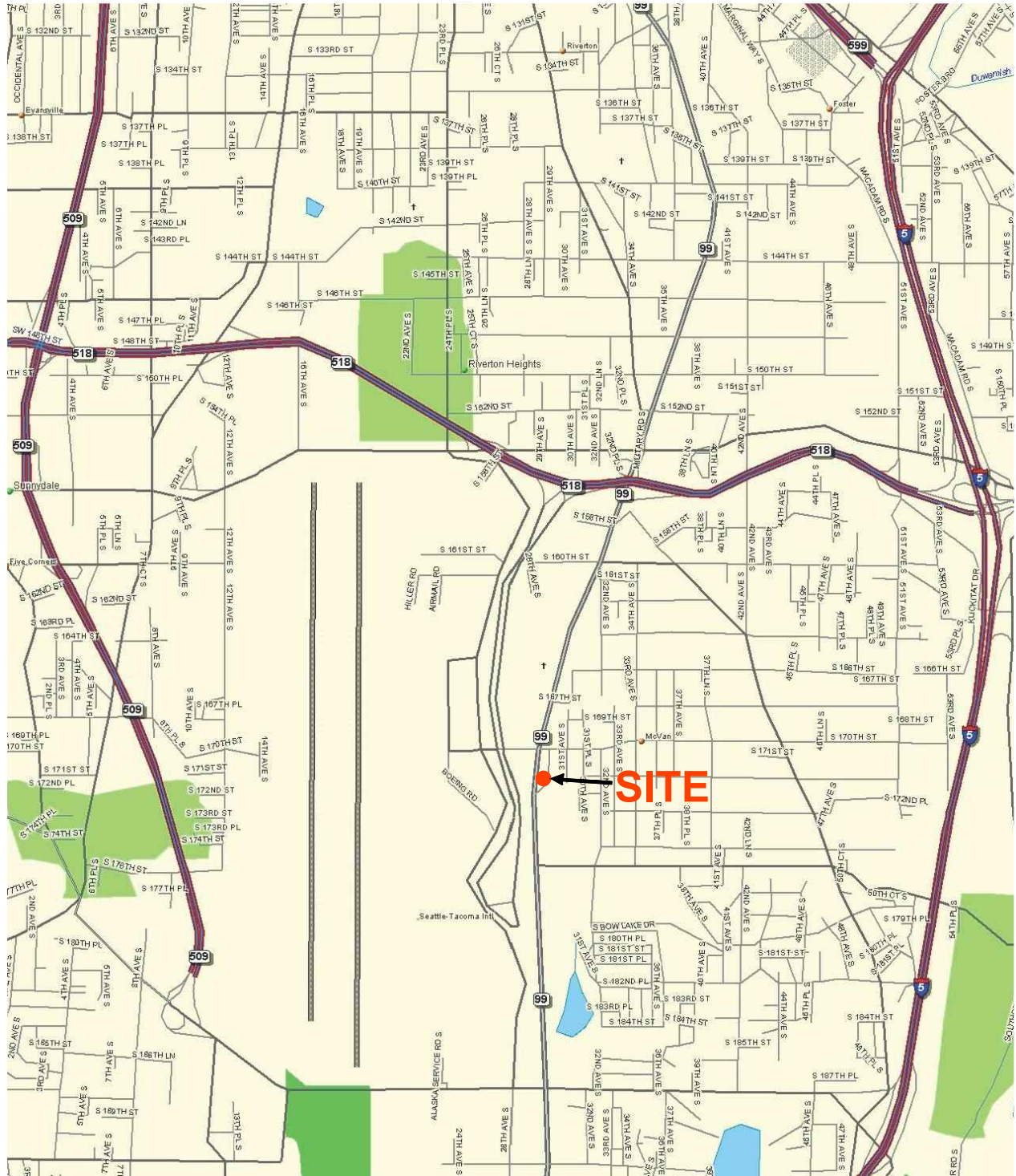
a) Washington Administrative Code Chapter 173-340, Model Toxics Control Act Cleanup Regulation, Method A suggested groundwater cleanup level.

µg/L - micrograms per liter.

N/A - Not Analyzed

< - analyte not detected at or greater than the listed concentration.

Figures



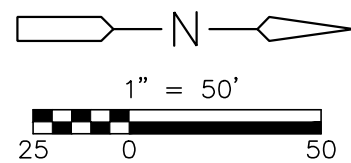
Source: 2000 DeLorme, Xmap Business. 2000 GDT, Inc. Rel. 04/2000



GATEWAY INVESTMENT LLC /
 FORMER TAC-SEA MOTEL
 COMPLIANCE MONITORING
 SEATAC, WASHINGTON

Figure No. 1
 Vicinity Map

P:\20843\104206 (SEA TAC)\Figure 2 (site plan) 06/03/14 10:21 richlepj XREFS: S_1117
©2014 CDM SMITH ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH
AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



LEGEND

- MWA** MONITORING WELL LOCATION AND ID
- SE1** SOIL VAPOR EXTRACTION WELL LOCATION AND ID (ABANDONED)
- DE1/AS1** COMBINED SOIL VAPOR EXTRACTION AND AIR SPARGE WELL LOCATION AND ID (ABANDONED)
- MW6** MONITORING WELL LOCATION (ABANDONED)
- LAMP POST
- SITE BOUNDARY

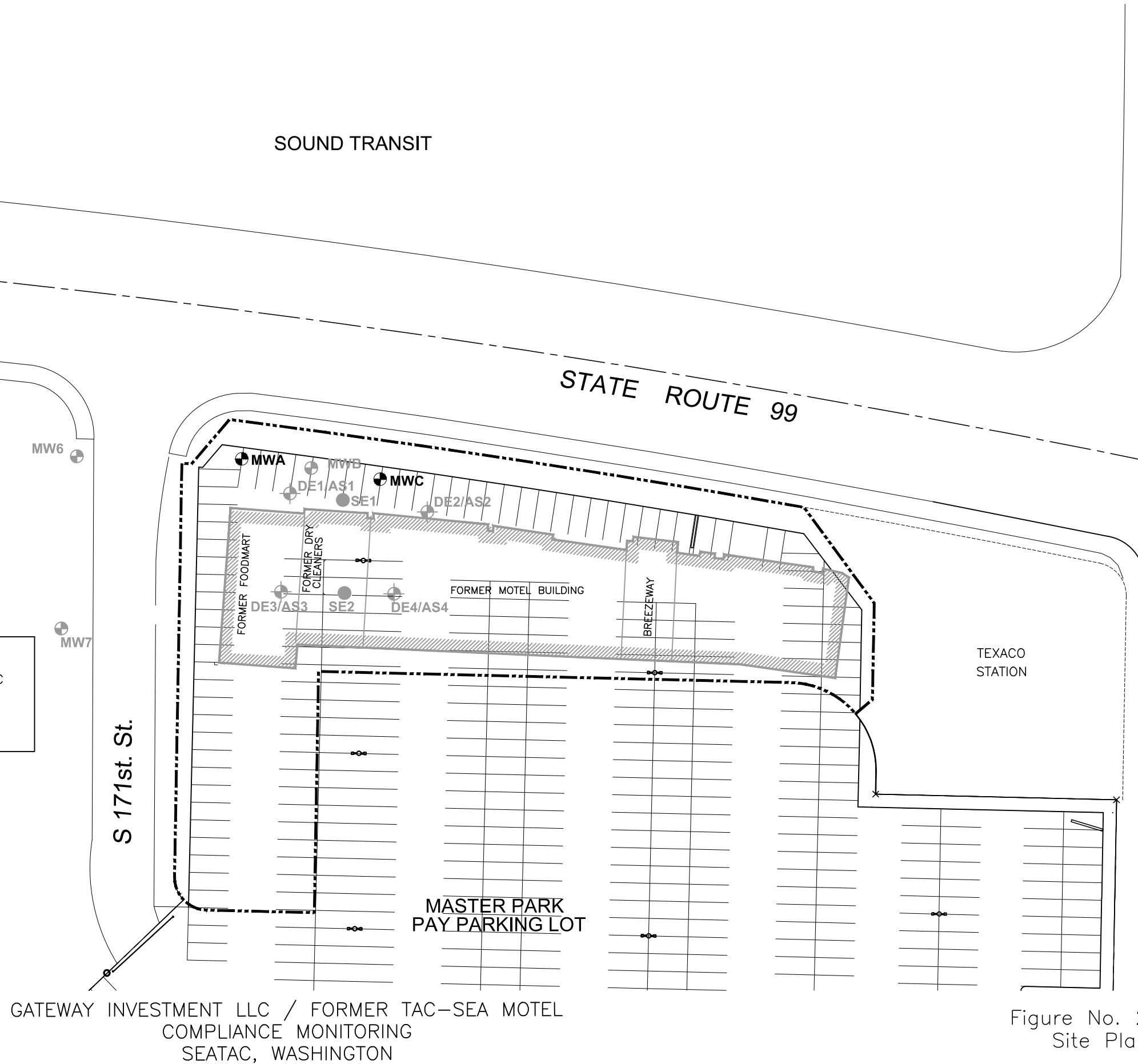


Figure No. 2
Site Plan

Attachment A

Laboratory Report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 18, 2020

Pam Morrill
CDM Smith, Inc.
14432 SE Eastgate Way, Suite 100
Bellevue, WA 98007-6493

Re: Analytical Data for Project 244553
Laboratory Reference No. 2002-112

Dear Pam:

Enclosed are the analytical results and associated quality control data for samples submitted on February 12, 2020.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 18, 2020
Samples Submitted: February 12, 2020
Laboratory Reference: 2002-112
Project: 244553

Case Narrative

Samples were collected on February 11, 2020 and received by the laboratory on February 12, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: February 18, 2020
 Samples Submitted: February 12, 2020
 Laboratory Reference: 2002-112
 Project: 244553

VOLATILE ORGANICS EPA 8260D

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MW-C-02/20				
Laboratory ID:		02-112-01				
Vinyl Chloride	ND	0.20	EPA 8260D	2-12-20	2-12-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(cis) 1,2-Dichloroethene	0.21	0.20	EPA 8260D	2-12-20	2-12-20	
Trichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
Tetrachloroethene	9.2	0.20	EPA 8260D	2-12-20	2-12-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: February 18, 2020
 Samples Submitted: February 12, 2020
 Laboratory Reference: 2002-112
 Project: 244553

VOLATILE ORGANICS EPA 8260D

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-A-02/20					
Laboratory ID:	02-112-02					
Vinyl Chloride	ND	0.20	EPA 8260D	2-12-20	2-12-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
Trichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
Tetrachloroethene	4.3	0.20	EPA 8260D	2-12-20	2-12-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: February 18, 2020
 Samples Submitted: February 12, 2020
 Laboratory Reference: 2002-112
 Project: 244553

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0212W1					
Vinyl Chloride	ND	0.20	EPA 8260D	2-12-20	2-12-20	
1,1-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
Trichloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
Tetrachloroethene	ND	0.20	EPA 8260D	2-12-20	2-12-20	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



Date of Report: February 18, 2020
 Samples Submitted: February 12, 2020
 Laboratory Reference: 2002-112
 Project: 244553

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent	Recovery	RPD		Flags
					Recovery	Limits			
SPIKE BLANKS									
Laboratory ID:	SB0212W1								
	SB	SBD	SB	SBD	SB	SBD			
1,1-Dichloroethene	10.7	10.3	10.0	10.0	107	103	63-130	4	17
Benzene	10.5	9.91	10.0	10.0	105	99	76-125	6	19
Trichloroethene	10.3	9.84	10.0	10.0	103	98	76-121	5	18
Toluene	10.1	9.69	10.0	10.0	101	97	80-124	4	18
Chlorobenzene	10.0	9.85	10.0	10.0	100	99	75-120	2	19
Surrogate:									
Dibromofluoromethane					110	109	75-127		
Toluene-d8					106	104	80-127		
4-Bromofluorobenzene					101	101	78-125		





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



Page 1 of 1

Company:	CDM Smith
Project Number:	244553
Project Name:	Former Masterpark ^{Former} Seaside Motel
Project Manager:	Pam Morrill
Sampled by:	MLF and MS

**Turnaround Request
(in working days)**

(Check One)

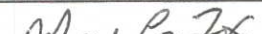

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number: 02-112[illegible]

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		com Smith	2/12/20	0900	1,1-Dichloroethene
Received		OGE	2/12/20	1115	vinyl chloride
Relinquished					Trans-1,2-dichloroethene
Received					Cis-1,2-dichloroethene
Relinquished					Tetrachloroethene
Received					trichloro ethene
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>