



TECHNICAL MEMORANDUM

To: Mr. Aaron Wilcox
From: David Borys
Date: July 12, 2017
Subject: **Handy Mart – June 2017 Groundwater Monitoring Results**

INTRODUCTION

HydroCon Environmental, LLC (HydroCon) is submitting this technical memorandum to Wilcox & Flegel to document the work completed at 1410 Ocean Beach Highway in Longview, Washington (the site) in June 2017. The work was conducted according to our Master Services Agreement (MSA), dated July 11, 2014.

FIELD ACTIVITIES

On June 30, 2017, HydroCon personnel mobilized to the site to perform the groundwater monitoring. Upon arrival at the site, the well cap on each well was removed and the water level was allowed to equilibrate prior to measuring the depth to water (DTW). The depth to water in each well was measured using a clean electronic water level indicator. Water levels were measured at the scribed reference mark (north end of the top of the PVC casing) at each well. A table detailing the groundwater levels and elevations and a figure indicating the groundwater flow direction are included in the attachments (Table 1 and Figure 4).

HydroCon purged monitoring wells MW-1 through MW-3 with a low flow peristaltic pump equipped with new length of LDPE tubing attached to a new length of silicone tubing. Field parameters (pH, temperature, dissolved oxygen, turbidity, and specific conductivity) and depth to water were measured and recorded on a Groundwater Sample Collection field form (Attachment A). Purging was completed when the field parameters had stabilized.

Samples were collected immediately after purging and placed in labeled laboratory-prepared sample bottles. The samples were shipped in an iced cooler along with chain-of-custody documentation to Apex Laboratory in Tigard, Oregon for analysis.

A total of three groundwater samples were collected for laboratory analysis. Each sample was analyzed for the following set of parameters:

- Gasoline Range Petroleum Hydrocarbons (GRPH) by Northwest Method NWTPH-Gx
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B.

GROUNDWATER CONDITIONS

Depth to water in the wells ranged from 6.73 to 8.01 feet below top of casing. Groundwater flows towards the west at an approximate gradient of 0.011 feet/foot between MW-2 and MW-3.

SAMPLING RESULTS

GRPH and the remaining BTEX constituents were not detected at concentrations above their respective laboratory method reporting limits (MRLs) in any of the submitted samples. A summary data table and the laboratory report are included in Table 2 and Attachment B, respectively.

DISCUSSION

The results of this quarterly groundwater monitoring indicate that all contaminants of concern at all site monitoring wells are below their respective MTCA Method A cleanup level. This is the fifth consecutive quarter where this condition has been observed and the second consecutive quarter where none of contaminants were detected above laboratory MRLs. Ecology requires four consecutive quarters before a site may be considered for No Further Action (NFA) determination.

Based on the analytical results, HydroCon recommends the following:

- Enter into the Ecology Voluntary Cleanup Program and submit a formal request to Ecology to review site reports and issue an NFA determination for the site.

QUALIFICATIONS

HydroCon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. HydroCon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that HydroCon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report.

Findings and conclusions resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this monitoring. Subsurface conditions may vary from those encountered at specific sampling locations or during other

surveys, tests, assessments, investigations, or exploratory services; the data, interpretations and findings are based solely upon data obtained at the time and within the scope of these services.

This report is intended for the sole use of **Wilcox & Flegel**. This report may not be used or relied upon by any other party without the written consent of HydroCon. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

The conclusions presented in this report are, in part, based upon subsurface sampling performed at selected locations and depths. There may be conditions between borings or samples that differ significantly from those presented in this report and which cannot be predicted by this study.

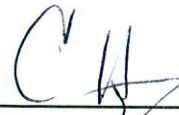
CLOSING

We appreciate the opportunity to perform these services for Wilcox & Flegel. Please contact the undersigned at (360) 703-6079 if you have any questions regarding the information provided in this letter report.

Sincerely,

The logo for HydroCon features the word "Hydro" in blue and "Con" in green, with a stylized blue and green water drop icon between them.A handwritten signature in black ink, appearing to read "Brian J Pletcher".

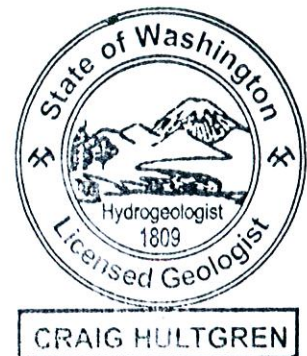
Brian J Pletcher
Senior Geologist/Project Manager

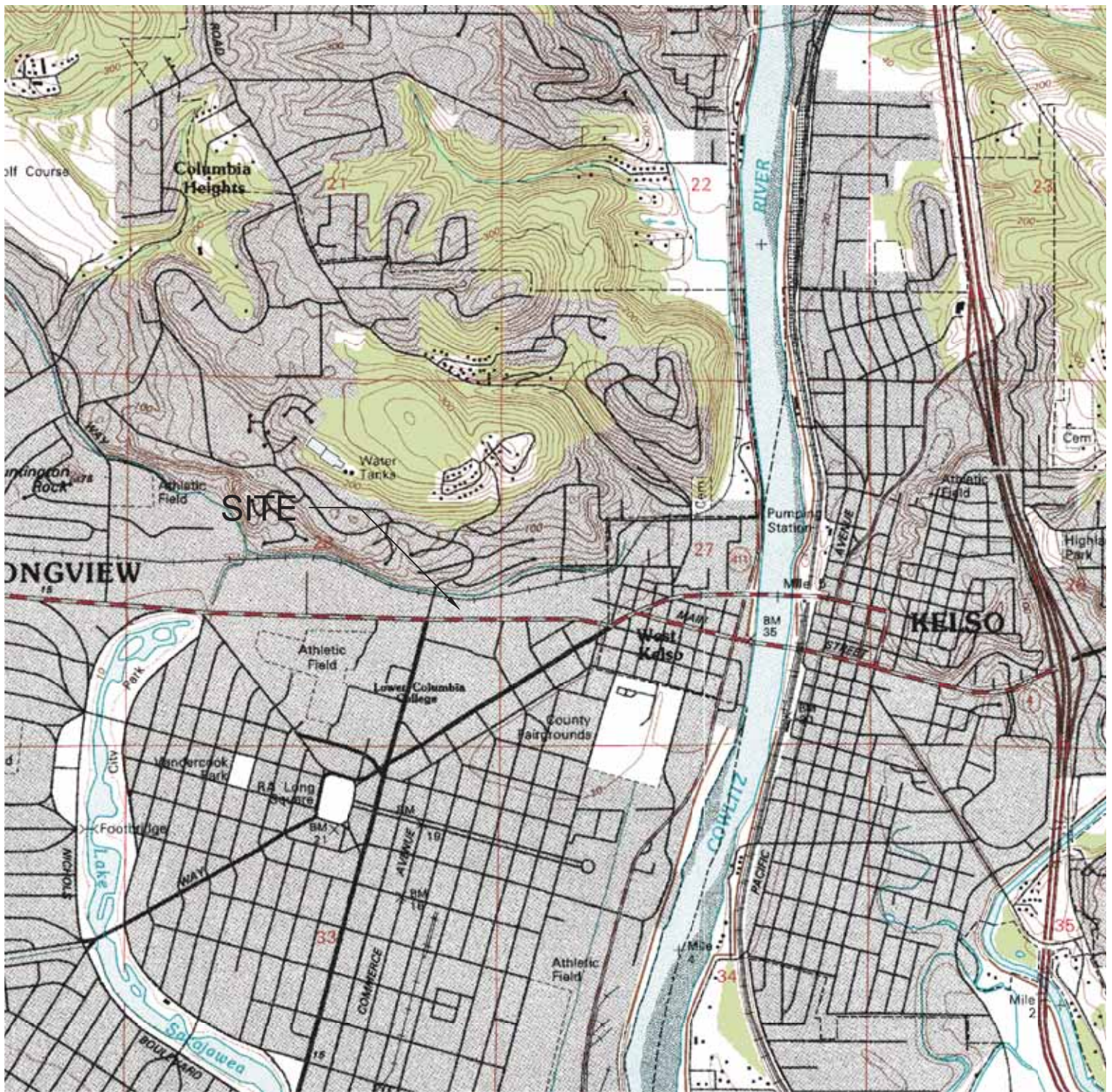
A handwritten signature in black ink, appearing to read "Craig Hultgren".

Craig Hultgren, LHG
Principal Geologist

Attachments

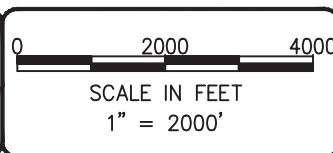
- Figure 1 – Site Location Map
- Figure 2 – Site Features Map
- Figure 3 – Groundwater Analytical Results
- Figure 4 – Groundwater Elevations and Contour Map
- Table 1 – Summary of Groundwater Elevations
- Table 2 – Summary of Groundwater Analytical Results
- Attachment A - Groundwater Sample Collection Field Forms
- Attachment B - Laboratory Report and Chain-of-Custody Documentation





NOTE(S):

1. USGS, KELSO QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)





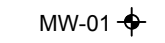
DATE: 03-20-17
DWN: JH
CHK: JH
APPROVED:
PRJ. MGR: DB
PROJECT NO:
2015-007-01

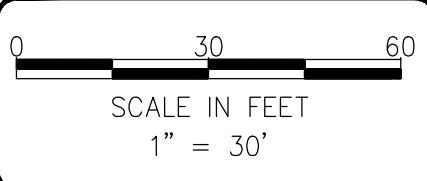
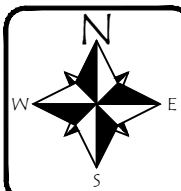
FIGURE 1
SITE LOCATION
HANDY MART
WILCOX & FLEGEL
1410 OCEAN BEACH HWY
LONGVIEW, WA

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LEGEND

-  PROPERTY BOUNDARY
-  BUILDING
-  MONITORING WELL



DATE: 07-12-17
 DWN: JH
 CHK: CD
 APPROVED:
 PRJ. MGR: DB
 PROJECT NO:
 2015-007-01

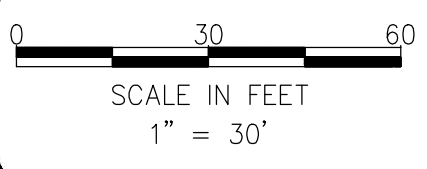
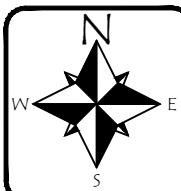
FIGURE 2
 SITE FEATURES
 HANDY MART
 WILCOX & FLEGEL
 1410 OCEAN BEACH HWY
 LONGVIEW, WA

Sample ID			MW01	MW02	MW03
Lab Sample ID			A7G0010-02	A7G0010-03	A7G0010-01
Collection Date			6/30/17	6/30/17	6/30/17
Parameter	Method	Unit	Ecology MTCA Level A		
			Value	Q	Value
			Q		Q
Total Petroleum Hydrocarbons (TPH)					
TPH Gasoline Range	NWTPH-Gx	µg/L	800	<100	<100
Select Volatile Organic Compounds (VOCs)					
Benzene	8021B	µg/L	5	<0.2	<0.2
Toluene	8021B	µg/L	1,000	<1	<1
Ethylbenzene	8021B	µg/L	700	<0.5	<0.5
Total Xylenes	8021B	µg/L	1,000	<1.5	<1.5



LEGEND

- PROPERTY BOUNDARY
- BUILDING
- MW-01 MONITORING WELL





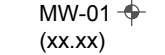
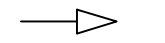

DATE: 07-12-17
 DWN: JH
 CHK: CD
 APPROVED: BP
 PRJ. MGR: DB
 PROJECT NO:
 2015-007-01

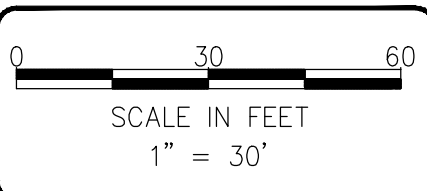
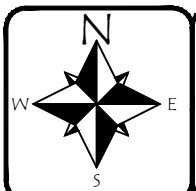
FIGURE 3
 SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 JUNE 2017
 WILCOX & FLEGEL - HANDY MART
 1410 OCEAN BEACH HWY
 LONGVIEW, WA

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LEGEND

-  PROPERTY BOUNDARY
-  BUILDING
-  MONITORING WELL
(xx.xx)
-  GROUNDWATER FLOW
DIRECTION
-  GROUNDWATER CONTOUR
ELEVATION



DATE: 07-12-17
 DWN: JH
 CHK: CD
 APPROVED: BP
 PRJ. MGR: DB
 PROJECT NO:
 2015-007-01

FIGURE 4.0
 GROUNDWATER ELEVATIONS AND CONTOUR MAP
 JUNE 2017
 WILCOX & FLEGEL - HANDY MART
 1410 OCEAN BEACH HWY
 LONGVIEW, WA

Table 1
Summary of Historical Groundwater Elevations
Handy Mart
Longview, Washington
HydroCon Project Number 2015-007.1

Monitoring Well ID	Date	TOC Elevation	Depth to Water	Groundwater Elevation
MW-1	4/14/16	21.12	8.03	13.09
	8/10/16		10.45	10.67
	11/17/16		7.93	13.19
	3/15/17		6.78	14.34
	6/30/17		8.01	13.11
MW-2	4/14/16	19.98	6.79	13.19
	8/10/16		8.41	11.57
	11/17/16		6.83	13.15
	3/15/17		5.58	14.40
	6/30/17		6.77	13.21
MW-3	4/14/16	19.63	6.41	13.22
	8/10/16		8.02	11.61
	11/17/16		6.37	13.26
	3/15/17		5.13	14.50
	6/30/17		6.73	12.90

Notes:

TOC = Top of well casing

Table 2
Summary of Groundwater Analytical Results
Handy Mart, Longview, Washington
HydroCon Project Number 2014-007.01

Parameter		GRPH [1]	Benzene [2]	Toluene [2]	Ethylbenzene [2]	Total Xylenes [2]
Cleanup Level*		800	5	1,000	700	1,000
Monitoring Well ID	Date Sampled					
MW01	9/24/15	<100	6.1	<1	<1	<3
	2/2/16	<100	6.6	<1	<1	<3
	4/14/16	<100	3.7	<1	<0.5	<1.5
	8/10/16	<100	2.2	<1	<0.5	<1.5
	11/17/16	<100	0.314	<1	<0.5	<1.5
	3/15/17	<100	<0.2	<1	<0.5	<1.5
	6/30/17	<100	<0.2	<1	<0.5	<1.5
MW02	9/24/15	460	<1	4.4	<1	3.5
	2/2/16	<100	2.7	<1	<1	<3
	4/14/16	<100	1.41	<1	<0.5	<1.5
	8/10/16	<100	<0.2	<1	<0.5	<1.5
	11/17/16	<100	<0.2	<1	<0.5	<1.5
	3/15/17	<100	<0.2	<1	<0.5	<1.5
	6/30/17	<100	<0.2	<1	<0.5	<1.5
MW03	9/24/15	<100	<1	<1	<1	<3
	2/2/16	210	<1	3.7	<1	<3
	4/14/16	310	<0.2	<1	<0.5	<1.5
	8/10/16	326	<0.2	<1	<0.5	<1.5
	11/17/16	329	<0.2	<1	<0.5	<1.5
	3/15/17	<100	<0.2	<1	<0.5	<1.5
	6/30/17	<100	<0.2	<1	<0.5	<1.5

Notes:

* = Washington State Model Toxics Control Act (MTCA) Method A Cleanup Level for Groundwater (rev. October 12, 2007)

[1] = Gasoline Range Petroleum Hydrocarbons (GRPH) by Northwest Method NWTPH-Gx

[2] = Volatile Organic Compounds (VOCs) by EPA Methods 8260B

< = Indicates compound not detected above the laboratory Method Reporting Limit (MRL) shown.

All values shown are in micrograms per liter (µg/L) (parts per billion).

Highlighted cell indicates compound detected above cited MTCA Method A Cleanup Level.

ATTACHMENT A
GROUNDWATER SAMPLE COLLECTION FIELD FORMS



GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW01Project Name: Hardy Matt
Hydrocon Project #: 2015-007-01
Date: 30 June 2017Sample I.D.: MW01 Time: 1245
Field Duplicate I.D.: - Time: -
Personnel: Chris Deschel

WELL INFORMATION

Monument condition: Good Needs repair Water in Monument
Well cap condition: Good Replaced Needs replacement Surface Water in Well
Headspace reading: Not measured _____ ppm Odor: _____
Well diameter: 2-inch 4-inch 6-inch Other 3/4"
Comments: _____

PURGING INFORMATION

Total well depth NM ft Bottom: Hard Soft Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 6.77 ft Intake Depth (BTOC) 12' Begin Purging Well: 1213
Casing volume _____ ft (H₂O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type Peristaltic Centrifugal Dedicated Bladder Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: Drummed Remediation System Other _____

FIELD PARAMETERS

Odor and/or Sheen: light petro odor

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (±10% or ≤10)
1215	-		18.9	.450	1.48	6.19	-76.4	+
1218	-		17.2	.452	3.47	6.24	-56.4	403
1231	-		17.5	.464	1.61	6.21	-63.0	236
1234	-		17.2	.462	1.48	6.21	-68.2	311
1237	-		17.2	.468	0.89	6.22	-74.4	337
1240	-		17.2	.467	0.75	6.21	-76.3	291
1243			17.1	.468	0.59	6.20	-77.1	157
Sample @ 1245								

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

Purging Comments: Abundant orange algae in purge water (purged 1 gallon prior to taking parameters)

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	<input checked="" type="checkbox"/> No 0.45 0.10	Gx/13TEX
			<input type="checkbox"/> No 0.45 0.10	
			<input type="checkbox"/> No 0.45 0.10	
			<input type="checkbox"/> No 0.45 0.10	
			<input type="checkbox"/> No 0.45 0.10	

Sampling Comments: _____



GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW02

Project Name: Handy Mart
 Hydrocon Project #: 2015-007-01
 Date: 30 June 2017

Sample I.D. MW02 Time: 1325
 Field Duplicate I.D. - Time: -
 Personnel: _____

WELL INFORMATION

Monument condition: Good Needs repair _____ Water in Monument
 Well cap condition: Good Replaced Needs replacement Surface Water in Well
 Headspace reading: Not measured _____ ppm Odor _____
 Well diameter: 2-inch 4-inch 6-inch Other 3/4"
 Comments: _____

PURGING INFORMATION

Total well depth NM ft Bottom: Hard Soft Not measured Screen Interval(s): _____
 Depth to product NM ft
 Depth to water 6.73 ft Intake Depth (BTOC) 12' Begin Purging Well: 1306
 Casing volume _____ ft (H₂O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
 Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type Peristaltic Centrifugal Dedicated Bladder Non-Dedicated Bladder Other _____
 Bailer type: _____ Water Disposal: Drummed Remediation System Other _____

FIELD PARAMETERS

Odor and/or Sheen: very faint

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (± 10% or ≤10)
1310	-	0.10	16.9	.179	2.24	6.38	-23.0	97.9
1313	-		16.7	.184	0.83	6.29	-36.9	84.2
1316	-		16.6	.189	0.58	6.23	-41.3	7.83
1319	-		16.6	.191	0.53	6.20	-41.4	7.55
1322	-		16.4	.192	0.51	6.17	-41.4	3.17
1325	-		16.5	.191	0.48	6.14	-41.5	✓
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> Sample @ 1325 </div>								

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

Purging Comments: _____

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	<u>No</u> 0.45 0.10	Gx / GTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____



GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW03Project Name: Handy Mart
Hydrocon Project #: 2015-007-01
Date: 30 June 2017Sample I.D. MW03 Time: 1410
Field Duplicate I.D. - Time: -
Personnel: Chris Dashed

WELL INFORMATION

Monument condition: Good Needs repair Water in Monument
Well cap condition: Good Replaced Needs replacement Surface Water in Well
Headspace reading: Not measured _____ ppm Odor _____
Well diameter: 2-inch 4-inch 6-inch Other 3/4"
Comments _____

PURGING INFORMATION

Total well depth NM ft Bottom: Hard Soft Not measured Screen Interval(s): _____
Depth to product NM ft
Depth to water 8.01 ft Intake Depth (BTOC) 12' Begin Purging Well: 1341
Casing volume _____ ft (H₂O) X _____ gal/ft = _____ gal. X 3 = _____ gal.
Volume Conversion Factors: 3/4"=0.02 gal/ft 1"=0.04 gal/ft 2"=0.16 gal/ft 4"=0.65 gal/ft 6"= 1.47 gal/ft

PURGING/DISPOSAL METHOD

Pump type Peristaltic Centrifugal Dedicated Bladder Non-Dedicated Bladder Other _____
Bailer type: _____ Water Disposal: Drummed Remediation System Other _____

FIELD PARAMETERS

Odor and/or Sheen: None

Time	Water Level (BTOC)	Purge Rate (L/min)	Temp. (°C)	Sp. Cond. (mS/cm) (±3%)	Dissolved Oxygen (±10% or ≤1.00 ±0.2)	pH (SU) (±0.1)	ORP (mV)	Turbidity (NTU) (±10% or ≤10)
1351	-	0.04	17.3	0.59	2.20	6.07	-51.1	134
1354	-		17.1	0.61	1.17	6.12	-72.3	50.7
1357	-		17.0	0.63	0.86	6.14	-82.0	24.8
1400	-		17.0	0.65	0.63	6.14	-96.4	6.76
1403	-		16.9	0.67	0.54	6.14	-102.4	2.74
1406	-		16.9	0.67	0.47	6.14	-103.6	3.56
Sample @ 1410								

Stabilization achieved if three successive measurements for pH, Conductivity and Turbidity or Dissolved Oxygen are recorded within their perspective stabilization criteria. A minimum of six measurements should be recorded.

Purging Comments: Suspended orange algae in purge water

SAMPLE INFORMATION

Container Type	Bottle Count	Preservative	Field Filtered?	Analysis
40 ml VOA	3	HCl	<input checked="" type="checkbox"/> No 0.45 0.10	GX/BTEX
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	
			No 0.45 0.10	

Sampling Comments: _____

ATTACHMENT B
LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, July 6, 2017

Dave Borys
HydroCon LLC
510 Allen St. Suite B
Kelso, WA 98626

RE: Handy Mart / 2015-007-01

Enclosed are the results of analyses for work order A7G0010, which was received by the laboratory on 7/3/2017 at 1:15:00PM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: ldomenighini@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lisa Domenighini, Client Services Manager

HydroCon LLC
510 Allen St. Suite B
Kelso, WA 98626

Project: **Handy Mart**
Project Number: 2015-007-01
Project Manager: Dave Borys

Reported:
07/06/17 10:20

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	PDF Amended	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	= MW2	A7G0010-01	Water	06/30/17 12:45	07/03/17 13:15
MW02	= MW3	A7G0010-02	Water	06/30/17 13:25	07/03/17 13:15
MW03	= MW1	A7G0010-03	Water	06/30/17 14:10	07/03/17 13:15

Apex Laboratories



Lisa Domenighini, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

HydroCon LLC
 510 Allen St. Suite B
 Kelso, WA 98626

Project: **Handy Mart**
 Project Number: 2015-007-01
 Project Manager: Dave Borys

Reported:
 07/06/17 10:20

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW01 (A7G0010-01)			Matrix: Water		Batch: 7070223			
Gasoline Range Organics	ND	---	100	ug/L	1	07/03/17 18:24	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
MW02 (A7G0010-02)			Matrix: Water		Batch: 7070223			
Gasoline Range Organics	ND	---	100	ug/L	1	07/03/17 18:51	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
MW03 (A7G0010-03)			Matrix: Water		Batch: 7070223			
Gasoline Range Organics	ND	---	100	ug/L	1	07/03/17 19:18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

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Lisa Domenighini, Client Services Manager

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HydroCon LLC
510 Allen St. Suite B
Kelso, WA 98626

Project: **Handy Mart**
Project Number: 2015-007-01
Project Manager: Dave Borys

Reported:
07/06/17 10:20

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW01 (A7G0010-01)			Matrix: Water		Batch: 7070223			
Benzene	ND	---	0.200	ug/L	1	07/03/17 18:24	EPA 8260B	
Toluene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
MW02 (A7G0010-02)			Matrix: Water		Batch: 7070223			
Benzene	ND	---	0.200	ug/L	1	07/03/17 18:51	EPA 8260B	
Toluene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
MW03 (A7G0010-03)			Matrix: Water		Batch: 7070223			
Benzene	ND	---	0.200	ug/L	1	07/03/17 19:18	EPA 8260B	
Toluene	ND	---	1.00	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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HydroCon LLC
510 Allen St. Suite B
Kelso, WA 98626

Project: **Handy Mart**
Project Number: 2015-007-01
Project Manager: Dave Borys

Reported:
07/06/17 10:20

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 7070223 - EPA 5030B

Water

Blank (7070223-BLK1)

Prepared: 07/03/17 09:22 Analyzed: 07/03/17 11:37

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>					<i>Limits: 50-150 %</i>				<i>Dilution: 1x</i>
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>					<i>50-150 %</i>				<i>"</i>

LCS (7070223-BS2)

Prepared: 07/03/17 09:22 Analyzed: 07/03/17 11:10

NWTPH-Gx (MS)

Gasoline Range Organics	435	---	100	ug/L	1	500	---	87	70-130%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>					<i>Limits: 50-150 %</i>				<i>Dilution: 1x</i>
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>					<i>50-150 %</i>				<i>"</i>

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 Kelso, WA 98626

Project: **Handy Mart**
 Project Number: 2015-007-01
 Project Manager: Dave Borys

Reported:
 07/06/17 10:20

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 7070223 - EPA 5030B

Water

Blank (7070223-BLK1)

Prepared: 07/03/17 09:22 Analyzed: 07/03/17 11:37

EPA 8260B												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 100 % 80-120 % "
 4-Bromofluorobenzene (Surr) 100 % 80-120 % "

LCS (7070223-BS1)

Prepared: 07/03/17 09:22 Analyzed: 07/03/17 10:43

EPA 8260B												
Benzene	20.0	---	0.200	ug/L	1	20.0	---	100	70-130%	---	---	---
Toluene	20.4	---	1.00	"	"	"	---	102	"	---	---	---
Ethylbenzene	20.4	---	0.500	"	"	"	---	102	"	---	---	---
Xylenes, total	62.4	---	1.50	"	"	60.0	---	104	"	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 96 % 80-120 % "
 4-Bromofluorobenzene (Surr) 95 % 80-120 % "



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Project: **Handy Mart**
 Project Number: 2015-007-01
 Project Manager: Dave Borys

Reported:
 07/06/17 10:20

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7070223							
A7G0010-01	Water	NWTPH-Gx (MS)	06/30/17 12:45	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00
A7G0010-02	Water	NWTPH-Gx (MS)	06/30/17 13:25	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00
A7G0010-03	Water	NWTPH-Gx (MS)	06/30/17 14:10	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260B

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 7070223							
A7G0010-01	Water	EPA 8260B	06/30/17 12:45	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00
A7G0010-02	Water	EPA 8260B	06/30/17 13:25	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00
A7G0010-03	Water	EPA 8260B	06/30/17 14:10	07/03/17 11:02	5mL/5mL	5mL/5mL	1.00

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Lisa Domenighini, Client Services Manager

HydroCon LLC
510 Allen St. Suite B
Kelso, WA 98626

Project: **Handy Mart**
Project Number: 2015-007-01
Project Manager: Dave Borys

Reported:
07/06/17 10:20

Notes and Definitions

Qualifiers:

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.
- Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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Kelso, WA 98626

Project: **Handy Mart**
Project Number: 2015-007-01
Project Manager: Dave Borys

Reported:
07/06/17 10:20

APEX LABS CHAIN OF CUSTODY Lab # A7F0010 coc L of L

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: HydroCon Project Mgr: Dave Borys Project Name: Handy Mart PO# _____ Project # 2015-007-01
 Address: 510 Allen Street Suite B Kelso, WA 98626 Phone: (360) 607-6079 Fax: _____ Email: David@hydroconllc.net
 Sampled by: Chris Dashed Chris @ HydroCon LLC

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST	
					YES	NO
MW01	6/30/17	12:45	440	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MW02		1325			<input type="checkbox"/>	<input type="checkbox"/>
MW03		1410			<input type="checkbox"/>	<input type="checkbox"/>

Site Location: OR WA
 Other: _____

ANALYSIS REQUEST	YES	NO
NVTPH-HCID		
NVTPH-DX	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NVTPH-GA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8260 VOCs Full List		
8260 RBDM VOCs		
8260 HVOCs		
8260 BTEX VOCs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8270 SVOC		
8270 SIM PAHs		
8082 PCBs		
600 TTO		
RCA Metals (8)		
TCLP Metals (8)		
AL, SH, AS, BA, BE, CA, CR, CU, NI, PB, PC, PI, MN, MO, SE, V, ZN		
TOTAL DISS TC1P		
1200-COLS		
1200-Z		

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 2 Day 1 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Chris Dashed Date: 7/17/17 Signature: [Signature] Date: 7/17/17
 Printed Name: Chris Dashed Time: 1:31:5 Printed Name: [Signature] Time: 1:15
 Company: HydroCon Company: Apex

RECEIVED BY: _____ Signature: _____ Date: _____
 Signature: _____ Date: _____
 Printed Name: _____ Time: _____
 Company: _____

Lisa Domenighini

HydroCon LLC
 510 Allen St. Suite B
 Kelso, WA 98626

Project: **Handy Mart**
 Project Number: 2015-007-01
 Project Manager: Dave Borys

Reported:
 07/06/17 10:20

APEX LABS COOLER RECEIPT FORM

Client: Hydrocon Element WO#: A7 C1010

Project/Project #: Handy Mart

Delivery info:
 Date/Time Received: 7/3/17 @ 1315 By: KM

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: KM : 7/3/17 @ 1320

Chain of Custody Included? Yes No Custody Seals? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C) <u>1.8</u>						
Received on Ice? (Y/N) <u>(Y)</u>						
Temp. Blanks? (Y/N) <u>(N)</u>						
Ice Type: (Gel/Real/Other) <u>(Gel)</u>						
Condition: <u>Good</u>						

Cooler out of temp? (Y/N) Possible reason why: Green dot applied to out of temperature samples?

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA (NA)

Samples Inspection: Inspected by: KM : 7/3/17 @ 1325

All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: _____

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____

Do VOA Vials have Visible Headspace? Yes No NA

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments: _____

Additional Information: _____

Labeled by: _____ Witness: _____ Cooler Inspected by: KM See Project Contact Form: Y

KM SO

Lisa Domenighini