

TECHNICAL MEMORANDUM

To: Mr. Aaron Wilcox From: David Borys

Date: November 29, 2016

Subject: Handy Mart – November 2016 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 November 2016. The work was conducted according to our Master Services Agreement (MSA), dated July 11, 2014.

FIELD ACTIVITIES

On November 17, 2016, 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 a new length of LDPE tubing attached to a new length of silicone tubing. Field parameters (pH, temperature, turbidity, and specific conductivity) along with depth to water measurements were recorded on a Groundwater Sample Collection 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 6.37 to 7.93 feet below top of casing. Calculated groundwater elevations ranged from 13.15 to 13.26 feet MSL in the three wells. Groundwater flows towards the southeast at an approximate gradient of 0.004 feet/foot between MW-3 and MW-2.

SAMPLING RESULTS

GRPH was detected at a concentration 329 micrograms per liter (μ g/L) in the sample collected from MW-3. This concentration is below the MTCA Method A Cleanup Level of 800 μ g/L. Benzene was detected at a concentration of 0.314 μ g/L in the sample collected from MW-1; however, the detected concentration is below the MTCA Method A Cleanup Level of 5 μ g/L. GRPH and the remaining BTEX constituents were not detected at concentrations above their respective laboratory method reporting limits (MRLs). A groundwater data table including the historical groundwater summary 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 third consecutive quarter where this condition has been observed. Ecology requires four consecutive quarters before a No Further Action (NFA) determination can be provided to a site.

Based on the analytical results, HydroCon recommends the following:

 Perform the next quarterly groundwater monitoring event during the first quarter (January-March) of 2017.

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 reuse 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 & Flagel. Please contact the undersigned at (360) 703-6079 if you have any questions regarding the information provided in this letter report.

Sincerely,

Hydro Con

Brian J Pletcher

Senior Geologist/Project Manager

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

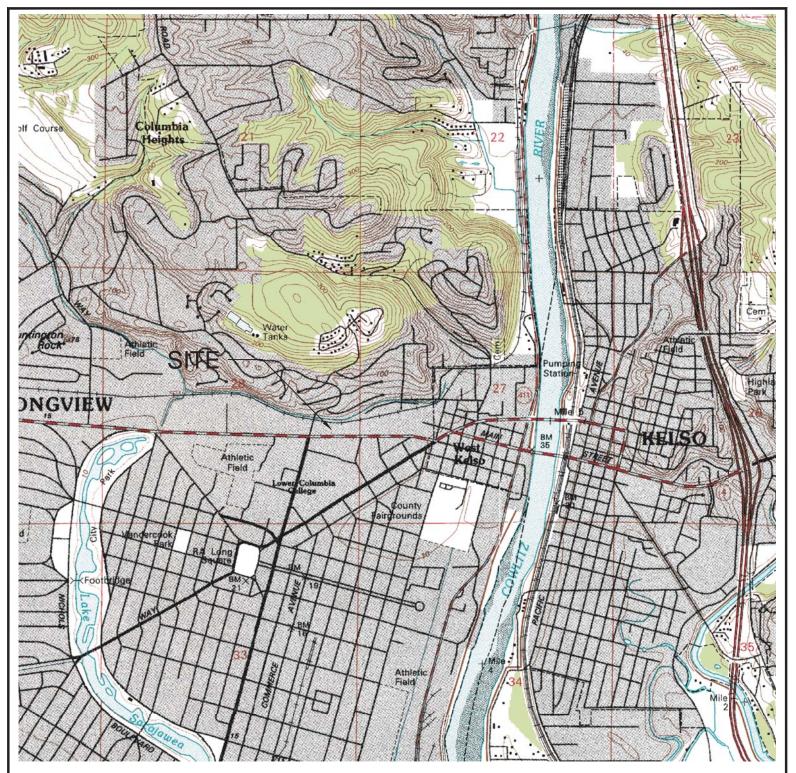
Attachment A - Groundwater Sample Collection Field Forms

Attachment B - Laboratory Report and Chain-of-Custody Documentation

Craig Hultgren, LHG Principal Geologist

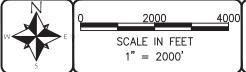


CRAIG HULTGREN



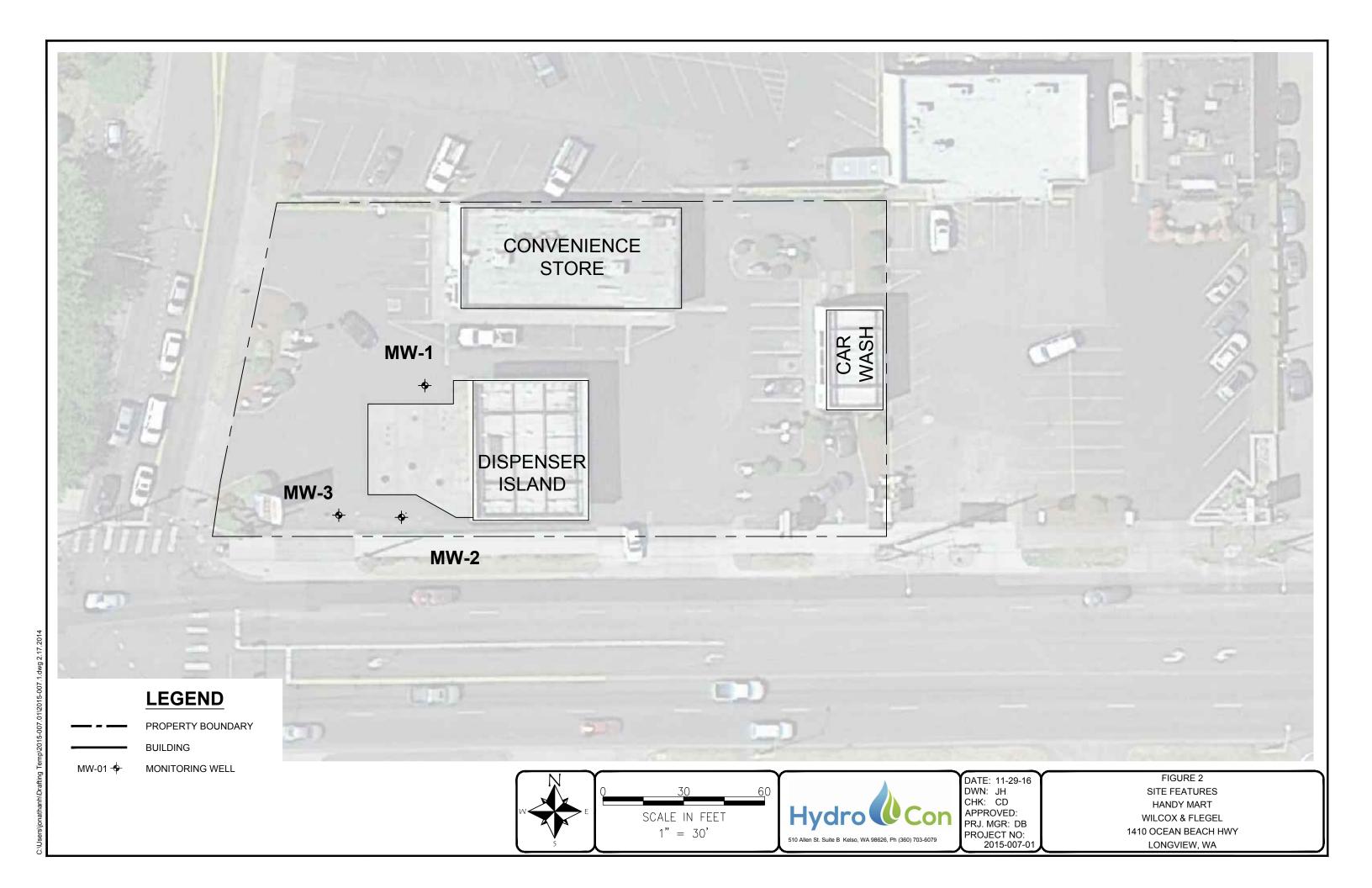
NOTE(S):

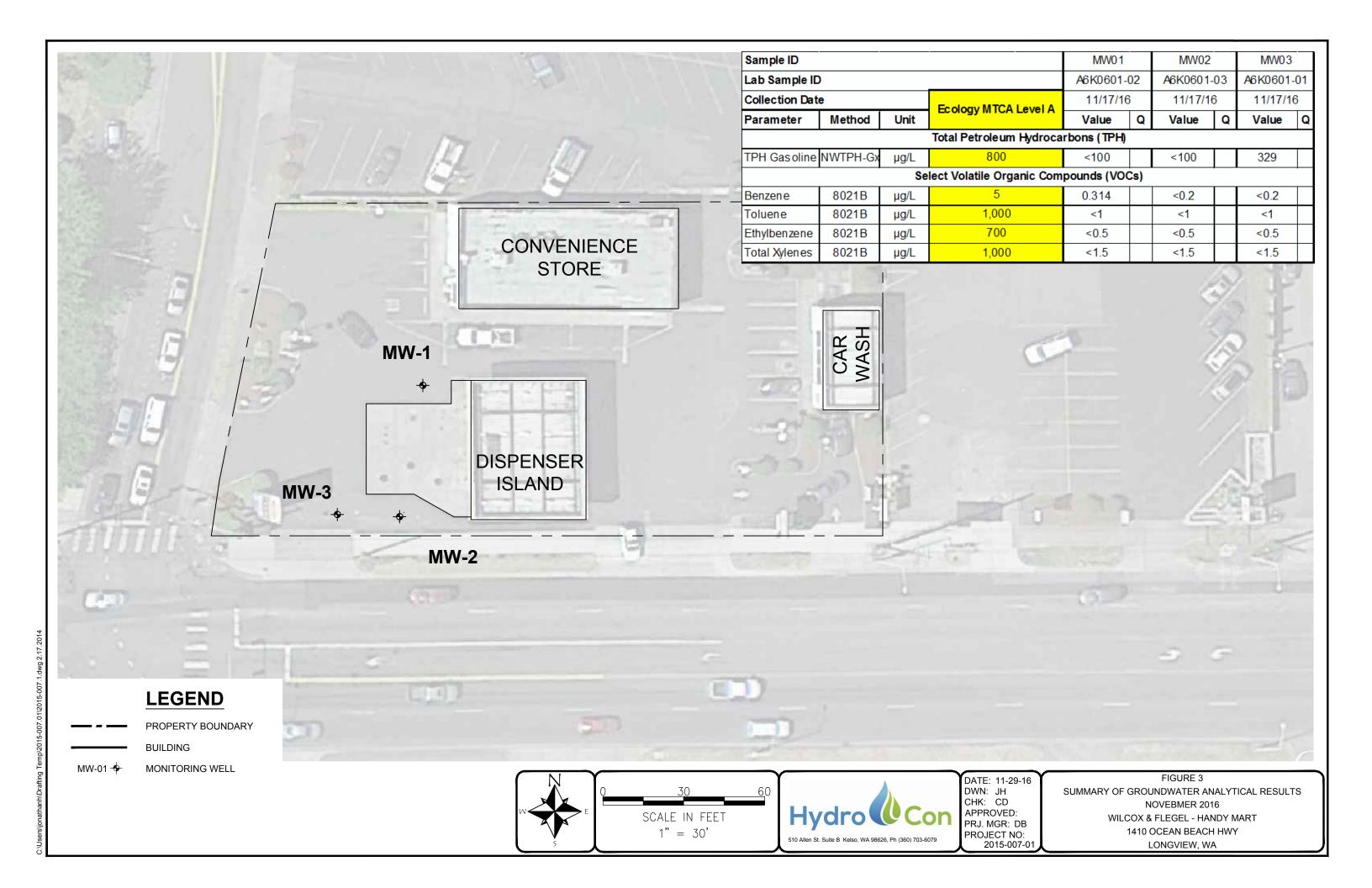
1. USGS, KELSO QUADRANGLE
WASHINGTON
7.5 MINUTE SERIES (TOPOGRAPHIC)





DATE:11-29-16 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





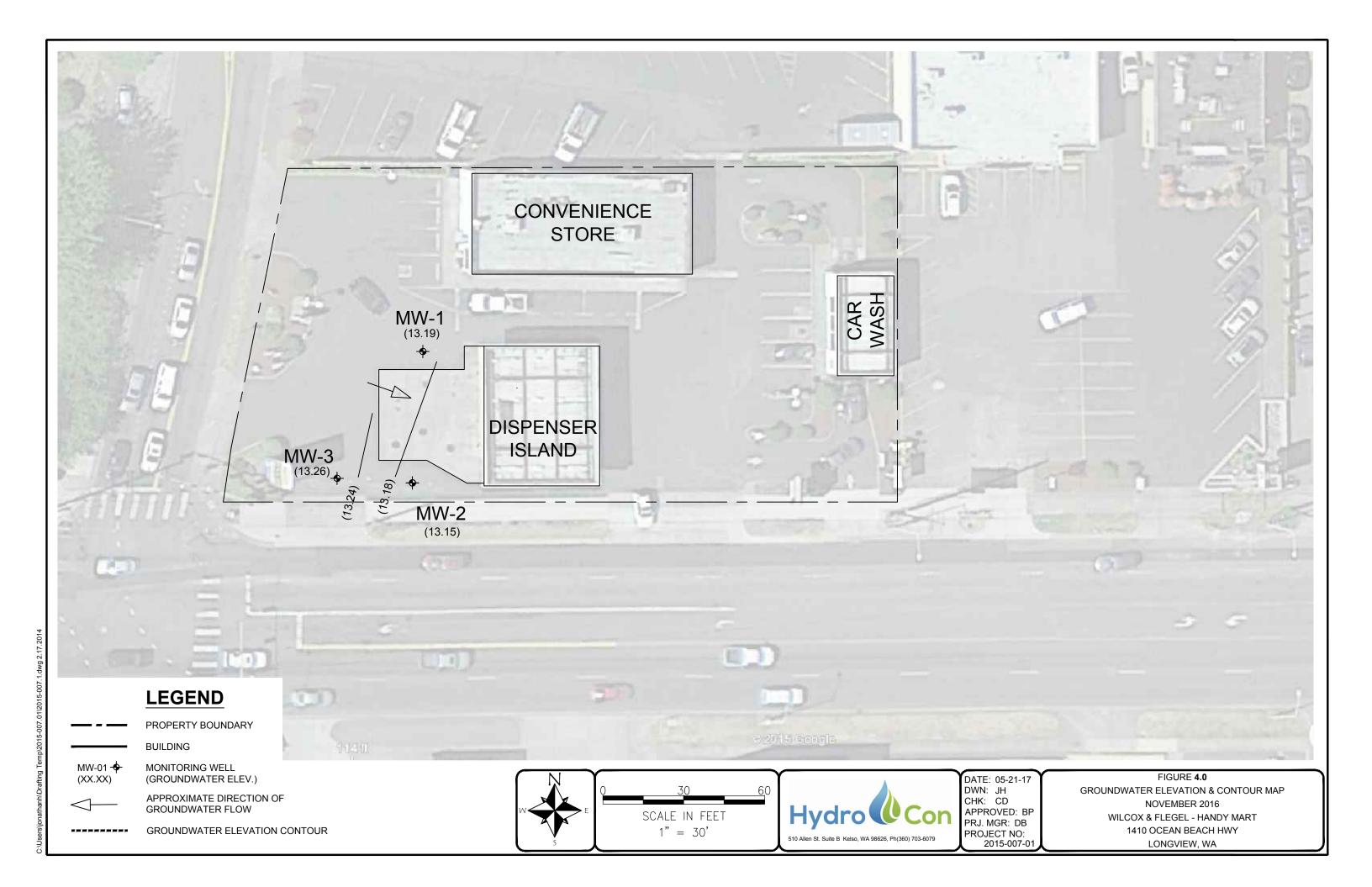


Table 1 **Summary of Historical Groundwater Elevations Handy Mart** Longview, Washington HydroCon Project Number 2015-007.1

Monitoring Well ID	Date	TOC Elevation	Depth to Water	Groundwater Elevation
	4/14/16		8.03	13.09
MW-1	8/10/16	21.12	10.45	10.67
	11/17/16		7.93	13.19
	4/14/16		6.79	13.19
MW-2	8/10/16	19.98	8.41	11.57
	11/17/16		6.83	13.15
	4/14/16		6.41	13.22
MW-3	8/10/16	19.63	8.02	11.61
	11/17/16		6.37	13.26

Notes:
TOC = Top of well casing

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

		GRPH [1]	Benzene [2]	Toluene [2]	Ethylbenzene [2]	Total Xylenes [2]
Cleanup Level*		200	_	4.000	700	4.000
Monitoring Well ID	Date Sampled	800	5	1,000	700	1,000
	9/24/15	<100	6.1	<1	<1	<3
	2/2/16	<100	6.6	<1	<1	<3
MW-1	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
	9/24/15	460	<1	4.4	<1	3.5
	2/2/16	<100	2.7	<1	<1	<3
MW-2	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
	9/24/15	<100	<1	<1	<1	<3
	2/2/16	210	<1	3.7	<1	<3
MW-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

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: MWol Project Name:. Hondy Mart
Hydrocon Project #: 2015 - 407 - 41 Sample I.D. Mwot Time: 1505 Time: Field Duplicate I.D.___ Personnel: Chair Dusthel Date 11/12/18 WELL INFORMATION Water in Monument Monument condition: X Good Needs repair Well cap condition: Good Replaced Needs replacement Surface Water in Well Headspace reading: Not measured ppm Odor Other 1" 2-inch 4-inch 6-inch Well diameter: Comments PURGING INFORMATION Total well depth 19.06 ft Bottom: ☐ Hard ☐ Soft ☒ Not measured Screen Interval(s):_____ Depth to product NM _π _ft Intake Depth (BTOC)___(L[']_____ Begin Purging Well: LϤϤ5 6.83 Depth to water____ Casing volume 12,23 ft (H2O) X 404 gal/ft = 489 gal. X 3 = 1,463 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_ Water Disposal: Drummed Remediation System Other But leaded Bailer type: light-moderate FIELD PARAMETERS Odor and/or Sheen:_ Dissolved Turbidity Time Water **Purge Rate** Temp. Sp. Cond. Oxygen pH ORP Level (±10% or (°C) (mS/cm) (NTU) (L/min) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±3%) (± 0.1) (BTOC) 276 16.44 -31.9 .540 4.83 6.21 1442 43.6 6.29 7.52 ,622 -50,6 -1.60 1451 49.9 17.35 -611 4.48 6.28 -64.4 1454 -10 34.1 4.416 17.38 6.22 .615 - 70.6 1457 -75-3 4.45 1500 6.28 19.6 17.29 .622 . 629 6.29 - 79.1 8.36 1503 4.44 17.25 1202 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 Bottle Preservative Field Filtered? Analysis **Container Type** Count No 0.45 0.10 40 ml VOA GX /BTEX 3 1401 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

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Time	Level	Purge Rate (L/min)	Temp.	(mS/cm)	Oxygen (±10% or	(SU)	ORP (mV)	(NTU)
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1404	Level	(L/min)	(°c)	(mS/cm) (±3%)	Oxygen (±10% or ≤1.00 ±0.2) ⊶.65	(SU) (±0.1)	(mV)	(NTU) (± 10% or ≤10)
1404 1403	Level		(°C)	(mS/cm) (±3%) 4151	Oxygen (±10% or ≤1.00 ±0.2) ⊶.65	(SU) (±0.1) 6.62 6.41	(mV) -16.1	(NTU) (± 10% or <10) ~(32 ~2~)
1404 1403 1418	Level	(L/min)	16.34 16.60	(mS/cm) (±3%) +151 -156	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51	(su) (±0.1) 6.62 6.41 6.38	(mV) -16.1 -17.1 -44.3	(NTU) (± 10% or <10) -132 -221 -49.5
404 407 418	Level	(L/min)	16.34 16.60 16.77 16.67	(mS/cm) (±3%) -151 -156 -17-1	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.77	(SU) (±0.1) 6.62 6.41 6.38 6.36	(mV) -14.1 -14.3 -48.6	(NTU) (±10% or s10)
404 403 410 413	Level	(L/min)	16.34 16.60 16.77 16.67	(mS/cm) (±3%) *151 *156 *17-1 ,173	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66	(SU) (±0.1) 6.62 6.32 6.38 6.36 6.35	(mV) -16.1 -17.1 -44.3 -48.6	(NTU) (± 10% or <10) -132 -221 -49.5
1404 1407 1418	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67	(mS/cm) (±3%) *151 *156 *17-1 ,173	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.77	(SU) (±0.1) 6.62 6.41 6.38 6.36	(mV) -14.1 -14.3 -48.6	(NTU) (±10% or s10) -(32 22) -(9.5 -(9.8 37.8
1404 1403 1413 1414	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67	(mS/cm) (±3%) *151 *156 *17-1 ,173	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66	(SU) (±0.1) 6.62 6.32 6.38 6.36 6.35	(mV) -16.1 -17.1 -44.3 -48.6	(NTU) (±10% or s10) -(32 22) -(9.5 -(9.8 37.8
1404 1403 1413 1414	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67 16.67	(mS/cm) (±3%) «151 «156 «17-1 ,173 «17-5 «17-7	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.38 6.36 6.35	(mV) -16.1 -17.1 -44.3 -48.6	(NTU) (±10% or s10) -(32 22) -(9.5 -(9.8 37.8
1404 1403 1413 1414	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67	(mS/cm) (±3%) -151 -156 -17-1 -173 -175 -177	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66	(SU) (±0.1) 6.62 6.32 6.38 6.36 6.35	(mV) -16.1 -17.1 -44.3 -48.6	(NTU) (±10% or s10) -(32 22) -(9.5 -(9.8 37.8
1404 1403 1413 1414	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67 16.67	(mS/cm) (±3%) «151 «156 «17-1 ,173 «17-5 «17-7	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.38 6.36 6.35	(mV) -16.1 -17.1 -44.3 -48.6	(NTU) (±10% or s10) -(32 22) -(9.5 -(9.8 37.8
1404 1403 1413 1416 1419	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67 16.67	(mS/cm) (±3%) -151 -156 -17-1 -17-3 -17-5 -17-7	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.77 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.36 6.35 6.35	(mV) -16.1 -17.1 -44.3 -48.6 -54.2 -59.6	(NTU) (±10% or s10)
1404 1403 1413 1416 1419	Level (BTOC)	(L/min)	16.34 16.60 16.77 16.67 16.67	(mS/cm) (±3%) -151 -156 -17-1 -173 -175 -177	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.36 6.35 6.35	(mV) -16.1 -17.1 -44.3 -48.6 -54.2 -59.6	(NTU) (±10% or s10)
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HOU HOU HIS HIS HIS HIS HIS HIS Abilization erspective arging Co	Level (BTOC) 6.52 achieved if the stabilization comments:	(L/min)	16.34 16.60 16.77 16.67 16.67 16.65	(mS/cm) (±3%) 151 156 17-1 17-3 17-5 17-7 17-5 17-7	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.65 4.51 5.02 7.11 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.36 6.35 6.35 6.33	(mV) -16.1 -17.1 - 44.3 -48.6 -54.2 -59.6	(NTU) (±10% or s10)
iHoH iHoH iHis iHis iHis iHis abilization erspective urging Co	Level (BTOC) 6.52 achieved if the stabilization of	(L/min)	16.34 16.60 16.77 16.67 16.67 16.65	(mS/cm) (±3%) 151 156 17-1 17-3 17-5 17-7 17-5 17-7	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.65 4.51 5.02 7.11 4.66 4.56	(SU) (±0.1) 6.62 6.32 6.36 6.35 6.35 6.33	(mV) -16.1 -17.1 - 44.3 -48.6 -54.2 -59.6	(NTU) (±10% or s10)
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abilization erspective urging Co	achieved if the stabilization comments:	(L/min) .12 .12 Tiee successive riteria. A mining the content of the count of th	16.34 16.60 16.77 16.67 16.67 16.65 16.65 Ic.65 Ic.65 Ic.65 Ic.65 Ic.65 Ic.65	(mS/cm) (±3%) -151 -156 -17-1 -17-3 -17-5 -17-7 s 17-5 -17-7 -17-7 eld Filtered? 0.45 0.10 0.45 0.10 0.45 0.10	Oxygen (±10% or ≤1.00 ±0.2) 4.65 4.51 5.02 7.11 4.66 4.56 4.56 4.56	(SU) (±0.1) 6.62 6.38 6.38 6.35 6.35 6.33	(mV) -16.1 -17.1 -44.3 -48.6 -54.2 -59.6	(NTU) (±10% or s10)
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GROUNDWATER SAMPLE COLLECTION FORM

Well I.D. Number: MW03

Time: 1335 Project Name: Handy Mont Sample I.D. Myo3 Time:___ Hydrocon Project #: 2019 - some Of Field Duplicate I.D. Date 11/17/16 Personnel: Chris Darchel WELL INFORMATION ☐ Good ☐ Needs repair ☐ Water in Monument ☐ Surface Water in Well Monument condition: Good Well cap condition: Headspace reading: Not measured Odor ppm Other Man 1" 6-inch Well diameter: 4-inch 2-inch Comments PURGING INFORMATION _ft Bottom: Hard Soft Not measured Screen Interval(s):_____ Total well depth 19.15 Depth to product ft Depth to water 1.93 ft Intake Depth (BTOC) 12 Begin Purging Well: 1307
Casing volume 11.22 ft (H₂O) X 09 gal/ft = 19 gal. X 3 = 1.97 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_ Water Disposal: Drummed Remediation System Other Bucketel Bailer type: Very tight abor Odor and/or Sheen: no was wishen FIELD PARAMETERS Dissolved Turbidity Time Water **Purge Rate** Temp. Sp. Cond. Oxygen pH ORP (±10% or (°C) (NTU) Level (L/min) (mS/cm) (SU) (mV) ≤1.00 ±0.2) (± 10% or ≤10) (±0.1) (±3%) (BTOC) 93,2 5.99 69.3 , 392 4.91 1310 NM 0.09 17.33 . 466 4.84 5.92 57.8 17.29 34.4 1313 4.73 5.97 35.9 -2.5 1316 17,22 - 570 17,29 .631 4.6% 6.06 -34.5 22.3 1319 -55.1 14.5 . 681 6.14 4.55 1322 14.40 4.51 .713 -68.9 9.66 1325 17.38 6.21 - 30.8 6.25 1328 17.36 . 734 4.46 4.44 -88.0 17.37 747 6.23 1331 17.22 4.73 -74.2 6.31 1334 756 10.11 1335 a 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: Red forance algae in surge unter SAMPLE INFORMATION Bottle Preservative Field Filtered? Analysis **Container Type** Count 40 ml VOA No 0.45 0.10 Gx GTCX 3 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

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

Tuesday, November 22, 2016

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 <u>A6K0601</u>, which was received by the laboratory on 11/17/2016 at 6:10:00PM.

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

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Kelso, WA 98626Project Manager:Dave Borys

Reported: 11/22/16 15:13

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFORMATION									
Sample ID	PDF Amended	Laboratory ID	Matrix	Date Sampled	Date Received					
MW01	= MW2	A6K0601-01	Water	11/17/16 15:05	11/17/16 18:10					
MW02	= MW3	A6K0601-02	Water	11/17/16 14:20	11/17/16 18:10					
MW03	= MW1	A6K0601-03	Water	11/17/16 13:35	11/17/16 18:10					

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Kelso, WA 98626

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

Reported:

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01

Project Manager: Dave Borys 11/22/16 15:13

ANALYTICAL SAMPLE RESULTS

Gaso	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx									
			Reporting	3						
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes		
MW01 (A6K0601-01)		Matrix: Water			10					
Gasoline Range Organics	ND		100	ug/L	1	11/18/16 16:06	NWTPH-Gx (MS)			
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	overy: 101 %	Limits: 50-150 %	, "	"	"			
1,4-Difluorobenzene (Sur)			109 %	Limits: 50-150 %	"	"	"			
MW02 (A6K0601-02)			Matrix: Wa	ater I	Batch: 61107	10				
Gasoline Range Organics	329		100	ug/L	1	11/18/16 16:56	NWTPH-Gx (MS)			
Surrogate: 4-Bromofluorobenzene (Sur)		Red	covery: 96 %	Limits: 50-150 %	, "	"	"			
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"			
MW03 (A6K0601-03)		Matrix: Water		Batch: 6110710						
Gasoline Range Organics	ND		100	ug/L	1	11/18/16 16:31	NWTPH-Gx (MS)			
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	overy: 101 %	Limits: 50-150 %	, "	"	"			
1,4-Difluorobenzene (Sur)			110 %	Limits: 50-150 %	"	"	"			

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Kelso, WA 98626Project Manager:Dave Borys

Reported: 11/22/16 15:13

ANALYTICAL SAMPLE RESULTS

		ВТ	EX Compo	unds by EPA 82	60B			
			Reporting	;				
Analyte	Result	MDL	Limit	Units	Dilution	Date Analyzed	Method	Notes
MW01 (A6K0601-01)			Matrix: Wa	ater Ba	tch: 61107			
Benzene	ND		0.200	ug/L	1	11/18/16 16:06	EPA 8260B	
Toluene	ND		1.00	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	
Xylenes, total	ND		1.50	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 109 %	Limits: 80-120 %	"	"	"	
Toluene-d8 (Surr)			102 %	Limits: 80-120 %	"	"	"	
4-Bromofluorobenzene (Surr)			104 %	Limits: 80-120 %	"	"	"	
MW02 (A6K0601-02)			Matrix: Wa	ater Ba	tch: 61107	10		
Benzene	ND		0.200	ug/L	1	11/18/16 16:56	EPA 8260B	
Toluene	ND		1.00	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	
Xylenes, total	ND		1.50	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 104 %	Limits: 80-120 %	"	"	"	
Toluene-d8 (Surr)			103 %	Limits: 80-120 %	"	"	"	
4-Bromofluorobenzene (Surr)			107 %	Limits: 80-120 %	"	"	"	
/IW03 (A6K0601-03)			Matrix: Wa	ater Ba	itch: 61107	10		
Benzene	0.314		0.200	ug/L	1	11/18/16 16:31	EPA 8260B	
Toluene	ND		1.00	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	
Xylenes, total	ND		1.50	"	"	"	"	
Surrogate: 1,4-Difluorobenzene (Surr)		Rec	overy: 110 %	Limits: 80-120 %	n .	"	"	
Toluene-d8 (Surr)			103 %	Limits: 80-120 %	"	"	"	
4-Bromofluorobenzene (Surr)			104 %	Limits: 80-120 %	"	"	"	

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Kelso, WA 98626Project Manager:Dave Borys

Reported: 11/22/16 15:13

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolin	e Range	Hydrocarbo	ons (Benz	ene thro	ugh Napht	halene) k	y NWTP	H-Gx			
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tillaryte	Result	WIDE	Limit	Cinto	DII.	7 Hillount	resuit	70KEC	Limits	МЪ	Limit	110103
Batch 6110710 - EPA 5030	3						Wat	er				
Blank (6110710-BLK1)				Pre	epared: 11/	18/16 10:20	Analyzed:	11/18/16 12	:23			
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		100	ug/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Rec	overy: 99 %	Limits: 50	-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			110 %	50	-150 %		"					
LCS (6110710-BS2)				Pre	epared: 11/	18/16 10:20	Analyzed:	11/18/16 11	:59			
NWTPH-Gx (MS)												
Gasoline Range Organics	470		100	ug/L	1	500		94	70-130%			
Surr: 4-Bromofluorobenzene (Sur)		Rec	overy: 93 %	Limits: 50	-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			100 %	50	-150 %		"					
Duplicate (6110710-DUP1)				Pre	epared: 11/	18/16 11:56	Analyzed:	11/18/16 17	:21			
QC Source Sample: MW02 (A6K06	501-02)											
NWTPH-Gx (MS)												
Gasoline Range Organics	309		100	ug/L	1		329			6	30%	
Surr: 4-Bromofluorobenzene (Sur)		Rec	overy: 95 %	Limits: 50	-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			101 %	50	-150 %		"					

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Kelso, WA 98626Project Manager:Dave Borys

Reported: 11/22/16 15:13

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX	Compou	ınds by	EPA 8260B						
Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6110710 - EPA 5030E	3						Wat	er				
Blank (6110710-BLK1)				Pre	epared: 11/	18/16 10:20	Analyzed:	11/18/16 12	2:23			
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)		Rec	overy: 110 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			103 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			102 %	80	-120 %		"					
LCS (6110710-BS1)				Pre	epared: 11/	18/16 10:20	Analyzed:	11/18/16 1	1:34			
EPA 8260B												
Benzene	21.1		0.200	ug/L	1	20.0		106	70-130%			
Toluene	20.4		1.00	"	"	"		102	"			
Ethylbenzene	19.4		0.500	"	"	"		97	"			
Xylenes, total	55.7		1.50	"	"	60.0		93	"			
Surr: 1,4-Difluorobenzene (Surr)		Re	covery: 99 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			99 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	-120 %		"					
Duplicate (6110710-DUP1)				Pre	epared: 11/	18/16 11:56	Analyzed:	11/18/16 1	7:21			
QC Source Sample: MW02 (A6K06	01-02)											
EPA 8260B												
Benzene	ND		0.200	ug/L	1		ND				30%	
Toluene	ND		1.00	"	"		ND				30%	
Ethylbenzene	ND		0.500	"	"		ND				30%	
Xylenes, total	ND		1.50	"	"		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Rec	overy: 102 %	Limits: 80	-120 %	Dilu	tion: 1x					
Toluene-d8 (Surr)			103 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			106 %	80	-120 %		"					

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Kelso, WA 98626Project Manager:Dave Borys

Reported: 11/22/16 15:13

SAMPLE PREPARATION INFORMATION

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx										
Prep: EPA 5030B					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 6110710											
A6K0601-01	Water	NWTPH-Gx (MS)	11/17/16 15:05	11/18/16 11:56	5mL/5mL	5mL/5mL	1.00				
A6K0601-02	Water	NWTPH-Gx (MS)	11/17/16 14:20	11/18/16 11:56	5mL/5mL	5mL/5mL	1.00				
A6K0601-03	Water	NWTPH-Gx (MS)	11/17/16 13:35	11/18/16 11:56	5mL/5mL	5mL/5mL	1.00				
			BTEX Compounds	s by EPA 8260B							
Prep: EPA 5030B					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
	Matrix Water	Method EPA 8260B	Sampled 11/17/16 15:05	Prepared 11/18/16 11:56	Initial/Final 5mL/5mL	Initial/Final 5mL/5mL	Factor				
Batch: 6110710			<u> </u>	1							

Apex Laboratories

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Reported:Kelso, WA 98626Project Manager:Dave Borys11/22/16 15:13

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.

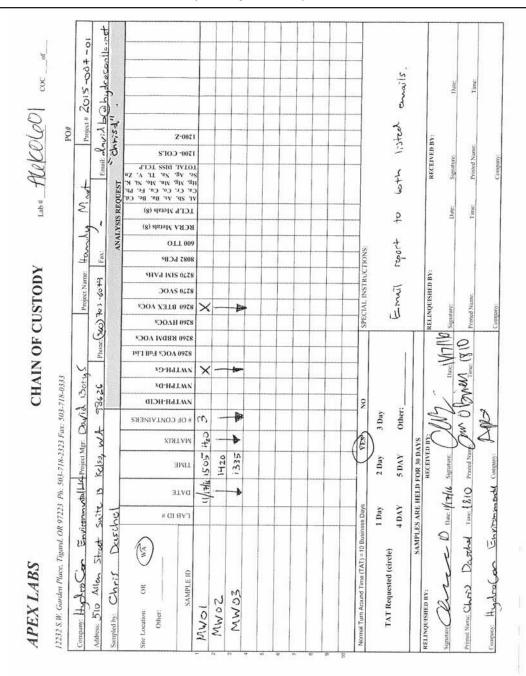
- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- *** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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

HydroCon LLCProject:Handy Mart510 Allen St. Suite BProject Number:2015-007-01Reported:Kelso, WA 98626Project Manager:Dave Borys11/22/16 15:13



Apex Laboratories

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Doas Smerighini

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

HydroCon LLC 510 Allen St. Suite B Kelso, WA 98626 Project: Handy Mart

Project Number: 2015-007-01 Project Manager: Dave Borys

Reported: 11/22/16 15:13

(1984)	/ AI	EA LABS COO	LER RECEIPT	FORM
Client: Hu	jdno Con		Ele	ement WO#: A6 KOGO
Project/Project #:	Handy	Mart	1201	-007-01
Delivery info:	J	10010 7000	1	
Date/Time Receive	ed: (V17/16 @	(810	sv: als	
Delivered by: Apex	~ /	SS FedEx		SenvoySDSOther
Cooler Inspection	Inspected by	7	6 : 11/1	7/16 SDS Other
Chain of Custody Ir	\/	No	Custody Sea	ls? Yes No
Signed/Dated by Cl	7	No	custody sea	181 165NO
Signed/Dated by Ap	ex? Yes X	No		
	Cooler #1	Cooler #2 Coo	oler#3 Cooler#	4 Cooler#5 Cooler#6 Cooler#
Temperature (deg. C	3-1		30000111	Cooler #5 Cooler #6 Cooler #
Received on Ice	(N)			
Temp. Blanks? (YN)			
Ice Type: (Ge)/Real/	Other)			
Condition:	3	D.	VV-115-V1-1-14	
Cooler out of temp? (If some coolers are in Samples Inspection: All Samples Intact?	Inspected by:	it, were green dot	applied to out of:	temperature samples? Yes/No/No
Containers/Volumes R	eceived Appropria	te for Analysis?	Yes A No_	Comments:
Oo VOA Vials have V	isible Headspace?	Yes No_	(NA /	
Vater Samples: pH Ch comments:			As): YesNo	NA
dditional Information:				
-1-11				
abeled by:	Witness:	Cooler Inspe	cted by: Mh	See Project Contact Form: Y
1-	Ald-			
an	IKK			
		01		

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