METCO
Excellence through experience™
709 Gillette St., Ste #3♦ La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: rona@metcohq.com ♦www.metcohq.com

September 19, 2017

Tim Zeichert
Wisconsin Department of Natural Resources
101 S. Webster Street, PO Box 7921
Madison, WI 53707-7921

Subject: Ellis Hand Car Wash – Site Investigation cost cap exceedence request (>$20K).
BRRTS #: 03-41-402801, PECFA #: 53209-6623-35

Dear Mr. Zeichert,

A cost estimate (using Usual & Customary schedule of charges) is being submitted for completion of the site investigation at the subject property located at 2335 W. Atkinson Avenue in Milwaukee, Wisconsin. This is required due to COMM 47 rule changes (Comm 47.337(2)) which requires WDNR approval to exceed the cap, meaning any costs incurred above $20,000 after April 30, 2006, will not be eligible for reimbursement unless previously approved.

As of today's date, $13,673.51 has been spent of the $20,000 Site Investigation Cap and included: [1] Investigation Workplan and [2] Geoprobe Project (22 borings ranging from 10-12 feet bgs with 64 soil samples and 15 groundwater samples (7 with no recovery) collected for field (PID) and/or laboratory analysis (VOC, PVOC+Naphthalene, and Lead).

The proposed workscope to complete the site investigation includes: Drilling Project with the installation of six monitoring wells to approximately 14 feet bgs with soil samples collected for field (PID) and laboratory analysis (PVOC+Naphthalene and GRO, TCLP Lead & Benzene for waste disposal characterization), two rounds of groundwater monitoring from all six site monitoring wells for laboratory analysis (VOC/PVOC+ Naphthalene, Lead, Nitrate/Nitrite, Sulfate, Dissolved Iron and Manganese), surveying, hydraulic conductivity testing, waste disposal, and completion of the Soil and Groundwater Investigation Report. The cost estimate for the proposed workscope is as follows:

Soil Boring/MW Permit		$ 246.12
Drilling Project		$ 8,727.87
Groundwater Monitoring (two events)		$ 2,385.71
Laboratory Analysis		$ 1,655.56
Surveying		$ 1,288.88
Hydraulic Conductivity Testing		$ 828.56
Investigative Waste Disposal		$ 1,374.25
Soil and Groundwater Investigation Report		$ 4,965.35
Change Order Request		$ 381.78
	Total	$21,854.08

METCO is requesting a cost cap exceedence in the amount of **$15,527.59** (proposed additional costs to complete the investigation $21,854.08 minus the remaining investigation budget $6,326.49). This will bring the total site investigation costs to $35,527.59.

Upon state approval of the proposed workscope and budget, METCO will proceed with the site investigation.

Attached are a site layout map with proposed monitoring well locations, soil & groundwater data tables, and draft standardized invoice form for the above workscope as required.

Should you have any questions, comments, or recommendations please contact me at our La Crosse office (608) 781-8879 or email at jasonp@metcohq.com.

Sincerely,

Jason T. Powell
Staff Scientist

Attachments

c: Donald Miller – New Hope Missionary Baptist Church of Milwaukee

B.I.b DETAILED SITE MAP

ELLIS HAND CAR WASH

METCO
709 Gillette St, Suite 3
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Tel: (608) 781-8879
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Excellence through experience™

MILWAUKEE, WISCONSIN

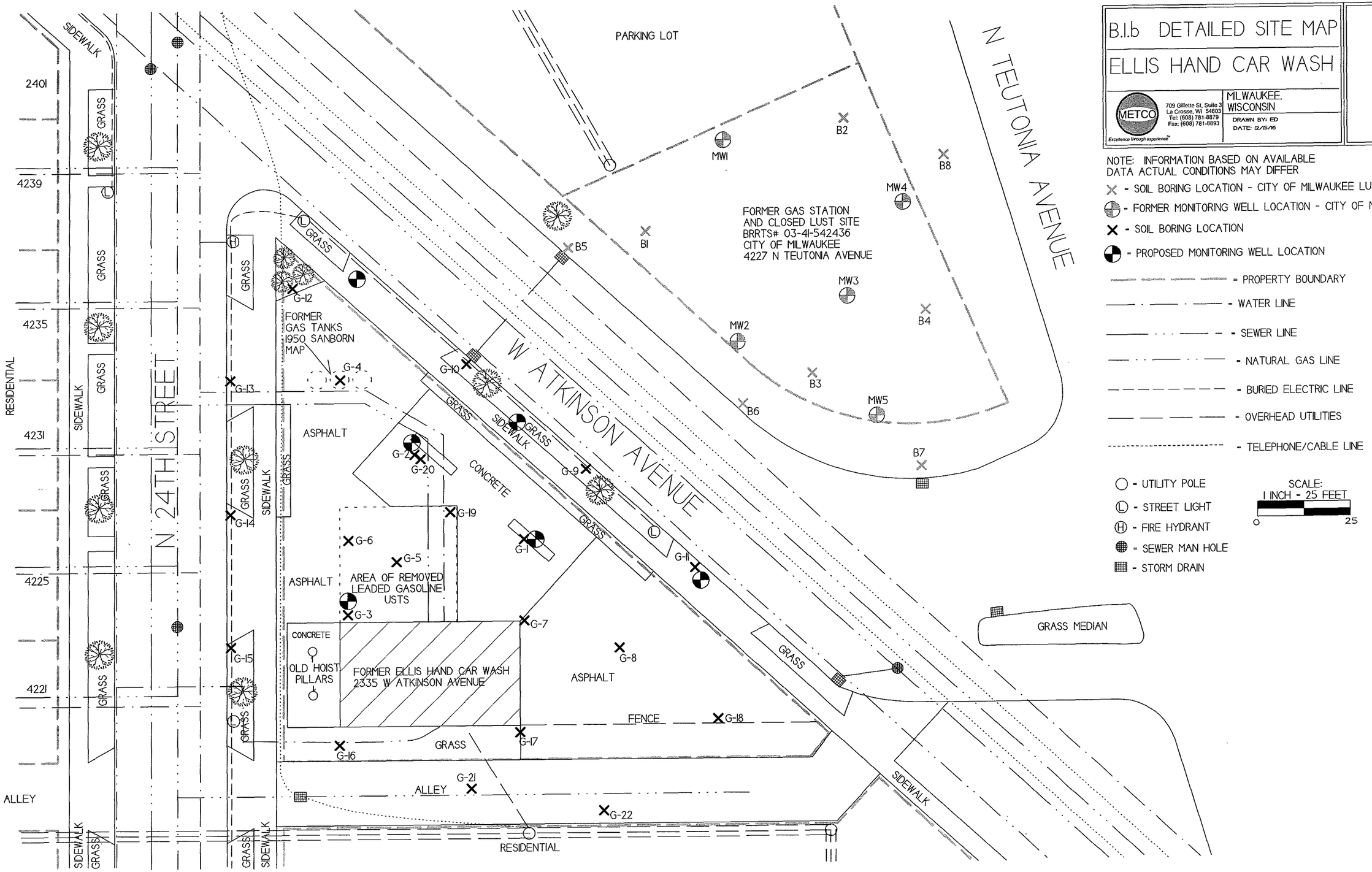
DRAWN BY: ED
DATE: 12/15/16

NORTH

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- X - SOIL BORING LOCATION - CITY OF MILWAUKEE LUST SITE
- - FORMER MONITORING WELL LOCATION - CITY OF MILWAUKEE LUST SITE
- X - SOIL BORING LOCATION
- - PROPOSED MONITORING WELL LOCATION
- = PROPERTY BOUNDARY
- - WATER LINE
- - SEWER LINE
- - NATURAL GAS LINE
- - BURIED ELECTRIC LINE
- - OVERHEAD UTILITIES
- - TELEPHONE/CABLE LINE
- - UTILITY POLE
- (L) - STREET LIGHT
- (H) - FIRE HYDRANT
- - SEWER MAN HOLE
- - STORM DRAIN

SCALE: 1 INCH - 25 FEET
0 25



A.2 Soil Analytical Results Table
Ellis Hand Car Wash BRRTS #03-41-402801

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1A	REFUSAL AT 1.5'															NS			
G-1B	REFUSAL AT 2'															NS			
G-1-1	3.5	U	08/01/17	40	**112**	NS	NS	<0.025	<0.025	<0.025	0.035	<0.025	0.053	0.039	<0.075	NS	0	0.2805	6.3E-09
G-1-2	7.0	U	08/01/17	292	NS	NS	NS	**35**	**74**	<0.5	**25.7**	**9.2**	**159**	**58**	**256.3**	NS			
G-1-3	12.0	S	08/01/17	19	NOT SAMPLED											NS			
G-2-1	NO RECOVERY															NS			
G-2-2	7.0	U	08/01/17	132	NS	NS	NS	**0.138**	0.32	<0.025	0.305	<0.025	0.193	0.73	1.306	NS			
G-2-3	10.0	S	08/01/17	4.2	NOT SAMPLED											NS			
G-3-1	3.5	U	08/01/17	2.6	7.52	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	7.5	U	08/01/17	7.4	NS	NS	NS	<0.025	<0.025	<0.025	0.055	<0.025	0.035	0.0285	<0.075	NS			
G-3-3	12.0	S	08/01/17	3.1	NOT SAMPLED											NS			
G-4-1	3.5	U	08/01/17	6.3	**97.2**	NS	NS	**0.121**	0.063	<0.025	0.085	<0.025	0.056	0.106	0.195	NS	0	0.2453	9.9E-08
G-4-2	8.0	U	08/01/17	421	8.68	NS	NS	**0.045**	0.64	<0.05	**2.09**	<0.032	<0.025	<0.032	0.092-0.136	SEE VOC SHEET			
G-4-3	10.0	S	08/01/17	5.9	NOT SAMPLED											NS			
G-4-4	11.0	S	08/01/17	5.8	NOT SAMPLED											NS			
G-5-1	3.5	U	08/01/17	6.7	1.86	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-5-2	8.0	U	08/01/17	4.7	NOT SAMPLED											NS			
G-5-3	12.0	S	08/01/17	4.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-1	3.5	U	08/01/17	4.8	**54.6**	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1365	
G-6-2	7.0	U	08/01/17	22	NS	NS	NS	**0.57**	0.080	<0.025	**0.95**	<0.025	0.148	0.296	0.594	NS			
G-6-3	12.0	S	08/01/17	4.7	NOT SAMPLED											NS			
G-7-1	3.5	U	08/01/17	2.5	18.5	NS	NS	**0.088**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0008	5.5E-08
G-7-2	7.5	U	08/02/17	5.9	NS	NS	NS	<0.025	<0.025	<0.025	0.149	<0.025	0.052	0.0258	<0.075	NS			
G-7-3	12.0	S	08/02/17	1.4	NOT SAMPLED											NS			
G-8-1	3.5	U	08/02/17	2.9	**144.2**	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	0.044	0.0289	<0.075	NS	0	0.3605	
G-8-2	7.5	U	08/02/17	19	NS	NS	NS	<0.025	<0.025	<0.025	0.32	<0.025	0.035	0.079	0.034-0.084	NS			
G-8-3	12.0	S	08/02/17	3.2	NOT SAMPLED											NS			
G-9-1	3.5	U	08/02/17	2.5	8.74	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-2	7.0	U	08/02/17	2.5	NS	NS	NS	**0.107**	<0.025	<0.025	0.0306	<0.025	<0.025	<0.025	<0.075	NS			
G-9-3	12.0	S	08/02/17	3.1	NOT SAMPLED											NS			
G-10-1	3.5	U	08/02/17	2.7	**57.2**	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.1430	
G-10-2	7.5	U	08/02/17	9.0	NS	NS	NS	<0.025	0.106	<0.025	0.144	<0.025	0.080	0.194	0.200	NS			
G-10-3	12.0	S	08/02/17	4.1	NOT SAMPLED											NS			
G-11-1	3.5	U	08/02/17	3.2	NOT SAMPLED											NS	0		
G-11-2	8.0	U	08/02/17	3.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-3	12.0	S	08/02/17	2.4	NOT SAMPLED											NS			
G-12-1	3.5	U	08/02/17	3.7	25.6	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-12-2	8.0	U	08/02/17	4.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-12-3	12.0	S	08/02/17	2.6	NOT SAMPLED											NS			
G-13-1	3.5	U	08/02/17	3.1	17.0	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-13-2	8.0	U	08/02/17	3.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-13-3	11.0	S	08/02/17	2.5	NOT SAMPLED											NS			
G-14-1	3.5	U	08/02/17	4.9	21.1	NS	NS	<0.025	<0.025	<0.025	0.111	<0.025	0.034	<0.025	0.060-0.110	NS	0	0.0008	2.0E-08
G-14-2	8.0	U	08/02/17	3.0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G14-3	12.0	S	08/02/17	3.7	NOT SAMPLED											NS			
G-15-1	3.5	U	08/02/17	3.1	NOT SAMPLED											NS	0		
G-15-2	8.0	U	08/02/17	3.7	NOT SAMPLED											NS			
G-15-3	12.0	S	08/02/17	3.4	NOT SAMPLED											NS			
G-16-1	3.5	U	08/02/17	4.4	NOT SAMPLED											NS	0		
G-16-2	8.0	U	08/02/17	4.4	NOT SAMPLED											NS			
G-16-3	12.0	S	08/02/17	4.1	NOT SAMPLED											NS			
G-17-1	3.5	U	08/02/17	25.0	**199**	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.041	<0.075	NS	0	0.4976	
G-17-2	7.0	U	08/02/17	47.0	NS	NS	NS	<0.05	0.073	<0.05	**1.52**	<0.05	0.145	0.42	0.258	NS			
G-17-3	12.0	S	08/02/17	4.2	NOT SAMPLED											NS			
G-18-1	3.5	U	08/02/17	2.7	NOT SAMPLED											NS	0		
G-18-2	8.0	U	08/02/17	2.7	NOT SAMPLED											NS			
G-18-3	12.0	S	08/02/17	3.5	NOT SAMPLED											NS			
G-19-1	3.5	U	08/02/17	5.9	**30.9**	NS	NS	**0.0286**	<0.025	<0.025	<0.025	<0.025	<0.025	0.0274	0.067-0.192	NS	0	0.0004	1.8E-08
G-19-2	7.0	U	08/02/17	103.0	NS	NS	NS	**7.9**	0.45	<0.125	**0.71**	0.292	<0.125	0.89	1.55-1.675	NS			
G-19-3	12.0	S	08/02/17	7.5	NOT SAMPLED											NS			
G-20-1	3.5	U	08/02/17	10.0	7.31	NS	NS	**0.95**	0.169	<0.025	0.073	<0.025	0.218	0.289	1.333	NS	0	0.0125	6.3E07
G-21-1	3.5	U	08/02/17	2.9	NOT SAMPLED											NS	0		
G-21-2	8.0	U	08/02/17	3.1	NOT SAMPLED											NS			
G-21-3	12.0	S	08/02/17	3.7	NOT SAMPLED											NS			
G-22-1	3.5	U	08/02/17	3.6	NOT SAMPLED											NS	0		
G-22-2	8.0	U	08/02/17	4.1	NOT SAMPLED											NS			
G-22-3	12.0	S	08/02/17	4.0	NOT SAMPLED											NS			
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.658**	**1.1**	**1.38**		**3.96**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.6**	**8.02**	**63.8**	**5.5**	**818**	**219**	**182**	**258**	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					**(800)**	-	-	**(7.07)**	**(35.4)**	**(282)**	**(24.1)**	**(818)**	**(219)**	**(182)**	**(258)**	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	**1820***	**480***	**8870***	-	**818***	**219***	**182***	**258***	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
NS = Not Sampled
NM = Not Measured
(ppm) = parts per million
ND = No Detects
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
Ellis Hand Car Wash BRRTS #03-41-402801

Sampling Conducted on August 1, 2017

VOC's		Bold = Groundwater RCL	Underline & Bold = Non-Industrial Direct Contact RCL	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-4-2				
Sample Depth/ft.	8				
Solids Percent	86.2				
Lead/ppm	8.68	27	400	(800)	= =
Benzene/ppm	0.045 "J"	0.00512	1.6	(7.07)	1820*
Bromobenzene/ppm	< 0.025	= =	342	(679)	= =
Bromodichloromethane/ppm	< 0.074	0.000326	0.418	(1.83)	= =
Bromoform/ppm	< 0.029	0.00233	25.4	(113)	= =
tert-Butylbenzene/ppm	0.041 "J"	= =	183	(183)	183*
sec-Butylbenzene/ppm	0.42	= =	145	(145)	145*
n-Butylbenzene/ppm	1.04	= =	108	(108)	108*
Carbon Tetrachloride/ppm	< 0.016	0.00388	0.916	(4.03)	= =
Chlorobenzene/ppm	< 0.013	= =	370	(761)	761*
Chloroethane/ppm	< 0.091	0.227	= =	= =	= =
Chloroform/ppm	< 0.035	0.0033	0.454	(1.98)	= =
Chloromethane/ppm	< 0.076	0.0155	159	(669)	= =
2-Chlorotoluene/ppm	< 0.015	= =	= =	= =	= =
4-Chlorotoluene/ppm	< 0.018	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 0.058	0.000173	0.008	(0.092)	= =
Dibromochloromethane/ppm	< 0.025	0.032	8.28	(38.9)	= =
1,4-Dichlorobenzene/ppm	< 0.037	0.144	3.74	(16.4)	= =
1,3-Dichlorobenzene/ppm	< 0.037	1.1528	297	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.028	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	< 0.048	3.0863	126	(530)	= =
1,2-Dichloroethane/ppm	< 0.038	0.00284	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.034	0.4834	5.06	(22.2)	= =
1,1-Dichloroethene/ppm	< 0.022	0.00502	320	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.032	0.0412	156	(2340)	= =
trans-1,2-Dichloroethene/ppm	< 0.028	0.626	1560	(1850)	= =
1,2-Dichloropropane/ppm	< 0.035	0.00332	0.406	(1.78)	= =
1,3-Dichloropropane/ppm	< 0.025	= =	1490	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.022		1510	(1510)	= =
cis-1,3-Dichloropropene/ppm	< 0.039	0.001	1210	(1210)	= =
Di-isopropyl ether/ppm	< 0.01	= =	2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.023	0.0000282	0.05	(0.221)	= =
Ethylbenzene/ppm	0.64	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.085	= =	1.63	(7.19)	= =
Isopropylbenzene/ppm	0.94	= =	= =	= =	= =
p-Isopropyltoluene/ppm	0.6	= =	162	(162)	162*
Methylene chloride/ppm	< 0.15	0.00256	61.8	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.05	0.027	63.8	(282)	8870*
Naphthalene/ppm	2.09	0.6582	5.52	(24.1)	= =
n-Propylbenzene/ppm	1.9	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.028	0.000156	0.81	(3.6)	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.028	0.0534	2.78	(12.3)	= =
Tetrachloroethene (PCE)/ppm	< 0.032	0.00454	33	(145)	= =
Toluene/ppm	< 0.032	1.11	818	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.064	0.408	24	(113)	= =
1,2,3-Trichlorobenzene/ppm	< 0.066	= =	62.6	(934)	= =
1,1,1-Trichloroethane/ppm	< 0.03	0.1402	= =	= =	= =
1,1,2-Trichloroethane/ppm	< 0.033	0.00324	1.59	(7.01)	= =
Trichloroethene (TCE)/ppm	< 0.041	0.00358	1.3	(8.41)	= =
Trichlorofluoromethane/ppm	< 0.041	2.2387	1230	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	< 0.025	1.38	219	(219)	219*
1,3,5-Trimethylbenzene/ppm	< 0.032		182	(182)	182*
Vinyl Chloride/ppm	< 0.019	0.000138	0.07	(2.08)	= =
m&p-Xylene/ppm	0.092 "J"	3.96	260	(260)	258*
o-Xylene/ppm	< 0.044				

NS = not sampled, NM = Not Measured
(ppm) = parts per million
= = No Exceedences
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Note: Non-Industrial RCLs apply to this site.

A.1 Groundwater Analytical Table
(Geoprobe)
Ellis Hand Car Wash BRRTS #03-41-402801

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	8/1/2017	**1340**	**2800**	<41	**640**	*520*	**3820**	**7252**
G-2-W	8/1/2017	**24.9**	3.8	<0.82	<2.17	5.0	3.75	12.71
G-3-W	8/1/2017	*3.3*	6.2	<0.82	<2.17	1.27	<2.05	3.8-4.19
G-4-W	8/1/2017	**12.9**	10.6	<0.82	<2.17	2.99	<2.05	6.55
G-5-W	8/1/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-6-W	8/1/2017	<1.7	<2	<8.2	<21.7	<6.7	<20.5	<19.5
G-7-W	8/2/2017	0.29	<0.2	<0.82	<2.17	<0.67	<2.05	0.5-2.06
G-9-W	8/2/2017	0.35	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-14-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-15-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-16-W	8/2/2017	0.19	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-17-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-18-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-21-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-22-W	8/2/2017	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
ENFORCE MENT STANDARD ES = Bold		**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT PAL = Italics		*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

NS = Not Sampled
(ppb) = parts per billion (ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

Usual and Customary Standardized Invoice #22
July 2017 - December 2017

RR-083A

PECFA #: 53209-6623-35
BRRT's #: 03-41-402801
Site Name: Ellis Hand Car Wash
Site Address: 2335 W. Atkinson Ave., Milwaukee, WI

Vendor Name:
Invoice #:
Invoice Date:
Check #:

U&C Total $ 21,854.08
Variance to U&C Total $ -
Grand Total $ 21,854.08

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	$ 72.45	12	$ 869.40
1	GW Sampling		GS10	Incremental Sample Collection (natural attenuation)	Well	$ 47.67	6	$ 286.02
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	$ 26.25	12	$ 315.00
1	GW Sampling		GS25	Primary Mob/Demob	Site	$ 628.11	1	$ 628.11
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	$ 137.13	1	$ 137.13
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	$ 42.11	2	$ 84.22
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	$ 108.15	8	$ 865.20
4	Waste Disposal	Commodity	WD17	Landfill Environmental Fee (provide documentation)	ACTUAL COST			
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	$ 287.70	1	$ 287.70
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	$ 117.18	1	$ 117.18
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	$ 1,171.70	1	$ 1,171.70
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	$ 5.40	84	$ 453.60
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	$ 593.04	1	$ 593.04
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	$ 16.70	84	$ 1,402.80
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	$ 3.89	84	$ 326.76
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	$ 16.70	84	$ 1,402.80
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	$ 147.63	6	$ 885.78
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	$ 963.38	1	$ 963.38
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	$ 202.65	6	$ 1,215.90
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	$ 55.13	10	$ 551.30
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	$ 203.28	2	$ 406.56
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	$ 72.87	5	$ 364.35
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	$ 7.98	6	$ 47.88
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	$ 58.59	3	$ 175.77
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	$ 652.79	1	$ 652.79
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	$ 246.12	1	$ 246.12
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee			
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	$ 4,965.35	1	$ 4,965.35
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	$ 113.72	1	$ 113.72
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		63	$ 1,655.56
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob	Site	$ 287.18	1	$ 287.18
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	$ 381.78	1	$ 381.78
Variance								

Usual and Customary Standardized Invoice #22
July 2017 - December 2017

WISCONSIN DEPT. OF NATURAL RESOURCES

RR-083A

			TOTAL LAB CHARGES	**$**	**1,655.56**	**TASK 33**	**63**	**$**	**1,655.56**	**TASK 24**	**0**	**$**	**-**

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS		MAX COST	SAMPLES		TOTAL		MAX COST	SAMPLES		TOTAL
AIR	A1	Benzene	SAMPLE	$	44.94		$	-					
AIR	A2	BETX	SAMPLE	$	49.46		$	-					
AIR	A3	GRO	SAMPLE	$	46.10		$	-					
AIR	A4	VOC's	SAMPLE	$	71.93		$	-					
WATER	W1	GRO/PVOC	SAMPLE	$	29.19		$	-					
WATER	W2	PVOC	SAMPLE	$	26.99		$	-					
WATER	W3	PVOC + 1,2 DCA	SAMPLE	$	43.79		$	-					
WATER	W4	PVOC + Naphthalene	SAMPLE	$	30.35	7	$	212.45					
WATER	W5	VOC	SAMPLE	$	71.93	7	$	503.51					
WATER	W6	PAH	SAMPLE	$	72.98		$	-					
WATER	W7	Lead	SAMPLE	$	12.39	12	$	148.68					
WATER	W8	Cadmium	SAMPLE	$	13.55		$	-					
WATER	W9	Hardness	SAMPLE	$	12.39		$	-					
WATER	W10	BOD, Total	SAMPLE	$	23.63		$	-					
WATER	W11	Nitrate	SAMPLE	$	11.24	6	$	67.44					
WATER	W12	Total Kjeldahl	SAMPLE	$	20.27		$	-					
WATER	W13	Ammonia	SAMPLE	$	16.91		$	-					
WATER	W14	Sulfate	SAMPLE	$	10.19	6	$	61.14					
WATER	W15	Iron	SAMPLE	$	10.19	6	$	61.14					
WATER	W16	Manganese	SAMPLE	$	10.19	6	$	61.14					
WATER	W17	Alkalinity	SAMPLE	$	10.19		$	-					
WATER	W18	methane	SAMPLE	$	46.10		$	-					
WATER	W19	Phosphorous	SAMPLE	$	18.06		$	-					
WATER	W20	VOC Method 524.2	SAMPLE	$	176.30		$	-					
WATER	W21	EDB Method 504	SAMPLE	$	95.45		$	-		MAX COST	SAMPLES		TOTAL
SOILS	S1	GRO	SAMPLE	$	24.78	2	$	49.56		$ 24.78			$ -
SOILS	S2	DRO	SAMPLE	$	30.35		$	-		$ 30.35			$ -
SOILS	S3	GRO/PVOC	SAMPLE	$	28.14		$	-		$ 28.14			$ -
SOILS	S4	PVOC	SAMPLE	$	25.83		$	-		$ 25.83			$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	$	49.46		$	-		$ 49.46			$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	$	36.02	9	$	324.18		$ 36.02			$ -
SOILS	S7	VOC	SAMPLE	$	71.93		$	-		$ 71.93			$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	$	50.61		$	-		$ 50.61			$ -
SOILS	S9	PAH	SAMPLE	$	72.98		$	-		$ 72.98			$ -
SOILS	S10	Lead	SAMPLE	$	12.39		$	-		$ 12.39			$ -
SOILS	S11	Cadmium	SAMPLE	$	14.60		$	-				**TASK 24 TOTAL**	$ -
SOILS	S12	Free Liquid	SAMPLE	$	11.24		$	-					
SOILS	S13	Flash Point	SAMPLE	$	25.83		$	-					
SOILS	S14	Grain Size - dry	SAMPLE	$	42.74		$	-					
SOILS	S15	Grain Size - wet	SAMPLE	$	57.33		$	-					
SOILS	S16	Bulk Density	SAMPLE	$	13.55		$	-					
SOILS	S17	Permeability	SAMPLE	$	41.58		$	-					
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	$	20.27		$	-					
SOILS	S19	Nitrogen as Ammonia	SAMPLE	$	16.91		$	-					
SOILS	S20	% Organic Matter	SAMPLE	$	29.19		$	-					
SOILS	S21	TOC as NPOC	SAMPLE	$	57.33		$	-					
SOILS	S22	Soil Moisture Content	SAMPLE	$	6.83		$	-					
SOILS	S23	Air Filled Porosity	SAMPLE	$	25.83		$	-					
SOILS	S24	% Total Solids	SAMPLE	$	6.83		$	-					
SOILS	S25	Field Capacity	SAMPLE	$	28.14		$	-					
SOILS	S26	TCLP Lead	SAMPLE	$	83.16	1	$	83.16					
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	$	26.99		$	-					
SOILS	S28	TCLP Cadmium	SAMPLE	$	83.16		$	-					
SOILS	S29	TCLP Benzene	SAMPLE	$	83.16	1	$	83.16					
LNAPL	LFPS01	Viscosity + Density Interfacial tension I (LNAPL/water [dyne/cm]) Interfacial tension II (LNAPL/air [dyne/cm]) Interfacial tension III (water/air) [dyne/cm])	SAMPLE	$	561.33		$	-					
							TASK 33 TOTAL	$	1,655.56				