

Lilek, Christine F - DNR

#02-20-202459

From: Jeff Hosler [jlhosler@temco-llc.com]
Sent: Friday, August 19, 2011 1:41 PM
To: Lilek, Christine F - DNR
Subject: Re: I couldn't find an attachment. Can you attach & send again? RE: Oakfield Properties BRRTS#02-20-202459
Attachments: Exfoliate 28JUN2011 groundwater monitoring COC.pdf; Exfoliate 28JUN2011 groundwater monitoring data.pdf

Christine – here you go.

Regards,

Jeffrey L. Hosler
 TEMCO
 P.O. Box 856, Cedarburg, WI 53012
 262-675-6206
 262-675-6170 fax
 jlhosler@temco-llc.com
 Check out TEMCO's Web site: www.temco-llc.com

From: Lilek, Christine F - DNR
Sent: Friday, August 19, 2011 1:07 PM
To: Jeff Hosler
Subject: I couldn't find an attachment. Can you attach & send again? RE: Oakfield Properties BRRTS#02-20-202459

I couldn't find an attachment. Can you attach & send again?

 Christine F Lilek

From: Jeff Hosler [mailto:jlhosler@temco-llc.com]
Sent: Tuesday, August 02, 2011 02:09 PM
To: Lilek, Christine F - DNR
Cc: Mueller Randy
Subject: Re: How did the May sample results look? Are they stable or decreasing? Keeping my fingers crossed! RE: Oakfield Properties BRRTS#02-20-202459

Christine – Attached are the lab report and COC for the groundwater samples collected at Exfoliate on 28JUN2011. I will get the data tables updated ASAP. As you will see, the results are something of a mixed bag:

MW – 7 – Complete destruction of all chlorinated contaminants resulting from late DEC2006 in-situ treatment, followed by increasing but very muted trend. Good news is slow increase in contaminant levels and much greater increases in dichloro-compounds and VC than TCE. This hopefully indicates the treatment with EOS (edible oil substrate), immediately upgradient of MW – 7, was effective both in reducing the overall level of contamination as well as accelerating the reductive dechlorination process.

MW –9 – The pre-treatment contaminant levels show a fair amount of unexplained variation, which I think is largely a function of the well being located on the west edge of the contaminant plume, and the

08/19/2011

contaminant levels being subject to variation in seasonal/weather related hydraulic conditions. The significant post-remediation contaminant level increases most likely are due to the plume being temporarily expanded in width hydraulically by the injection process.

MW – 10 – Mostly good news. No bounceback in TCE and relatively stable levels of daughter products since treatment. Also some hopeful evidence that stable to decreasing levels of dichloro compounds and increasing level of VC is indicating continuing reductive dechlorination.

PZ – 1 – No significant changes. Very stable contaminant levels. Possibly some decrease in TCE levels following treatment, but not enough data variation/quantity to define any trend.

PZ – 2 – Pretty clear decreasing trend in all contaminant levels. The trend appears to have started before treatment occurred.

Regards,

Jeffrey L. Hosler
TEMCO
P.O. Box 856, Cedarburg, WI 53012
262-675-6206
262-675-6170 fax
jlhosler@temco-llc.com
Check out TEMCO's Web site: www.temco-llc.com

From: Lilek, Christine F - DNR

Sent: Tuesday, July 26, 2011 12:48 PM

To: Jeff Hosler

Subject: How did the May sample results look? Are they stable or decreasing? Keeping my fingers crossed! RE: Oakfield Properties BRRS#02-20-202459

How did the May sample results look? Are they stable or decreasing? Keeping my fingers crossed!

 Christine F Lilek

From: Jeff Hosler [<mailto:jlhosler@temco-llc.com>]

Sent: Friday, May 06, 2011 02:29 PM

To: Lilek, Christine F - DNR

Subject: Re: Any luck in scheduling these 2 last rounds of samples? RE: Oakfield Properties BRRS#02-20-202459

Christine – You must have ESP. I just talked to Randy yesterday. I'll be going up to sample those wells within the next week or so.

Regards,

Jeffrey L. Hosler
TEMCO
P.O. Box 856, Cedarburg, WI 53012
262-675-6206
262-675-6170 fax
jlhosler@temco-llc.com
Check out TEMCO's Web site: www.temco-llc.com

From: Lilek, Christine F - DNR

Sent: Friday, May 06, 2011 2:07 PM

To: Jeff Hosler
Cc: Mueller Randy
Subject: Any luck in scheduling these 2 last rounds of samples? RE: Oakfield Properties BRRTS#02-20-202459

Any luck in scheduling these 2 last rounds of samples?

 *Christine F Lilek*

From: Lilek, Christine F - DNR
Sent: Monday, February 28, 2011 11:40 AM
To: 'Jeff Hosler'
Cc: 'Mueller Randy'
Subject: How does this sound? RE: Oakfield Properties BRRTS#02-20-202459

How does this sound? If two more samples from just the northern wells MW- 9, MW-7, PZ-1 and MW-10 & PZ-2 show a decreasing or stable level, then we go for closure? I'm doing something similar with Art Imig's Clothing Center project and that was ok with the NER closure committee.

 *Christine F Lilek - CPQ - PQ*

NER - Hydrogeologist - Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 53073

(☎) phone: (920) 892-8756, ext 3025
(✉) e-mail: Christine.Lilek@wisconsin.gov
(☎) fax: (920) 892-6638

From: Lilek, Christine F - DNR
Sent: Tuesday, February 22, 2011 04:31 PM
To: 'Jeff Hosler'
Cc: Mueller Randy
Subject: RE: Status RE: Oakfield Properties BRRTS#02-20-202459

Looks like West, South & East degree and extent defined; decreased or stabilized.

Tell me a bit more about the groundwater flow to the North, between MW- 9, MW-7, PZ-1 and MW-10 & PZ-2.

Is the northern horizontal flow rate greater than the vertical flow rate? Is it a downward, up ward or changing gradient at MW-7, PZ- 1 & MW-10,PZ-2.

Just wondering if we need any more wells to the north?

 *Christine F Lilek - CPQ - PQ*

NER - Hydrogeologist - Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 53073

(☎) phone: (920) 892-8756, ext 3025

(✉) e-mail: Christine.Lilek@wisconsin.gov

(☎) fax: (920) 892-6638

From: Jeff Hosler [mailto:jlhosler@temco-llc.com]
Sent: Monday, February 21, 2011 02:05 PM
To: Lilek, Christine F - DNR
Cc: Mueller Randy
Subject: Re: Status RE: Oakfield Properties BRRS#02-20-202459

Christine - Attached is the package of groundwater contamination and hydraulic data for the Exfoliate site in Oakfield which I prepared following our recent project status discussion. Per our discussion, I have deferred preparation of a groundwater monitoring report to preserve limited funds for future groundwater monitoring, hopefully to support case closure. I have included a copy of review notes for the most recent groundwater monitoring event in June 2009. Please contact me following your review to discuss potential pathway to case closure.

Regards,

Jeffrey L. Hosler
TEMCO
P.O. Box 856, Cedarburg, WI 53012
262-675-6206
262-675-6170 fax
jlhosler@temco-llc.com
Check out TEMCO's Web site: www.temco-llc.com

From: Lilek, Christine F - DNR
Sent: Monday, January 31, 2011 3:07 PM
To: jlhosler@temco-llc.com
Subject: Status RE: Oakfield Properties BRRS#02-20-202459

Jeff:

I backfilled Jennifer Easterly's position and I'm trying to get up to speed on all her projects.

Do you have any new information on this site?

Here's the last 2 pieces of correspondence I have for this project.

Thanks for any updates you can give me.

08/19/2011

 *Christine F Lilek - CPQ - PQ*

NER - Hydrogeologist - Remediation and Redevelopment Program

Wisconsin Department of Natural Resources

1155 Pilgrim Road

Plymouth, WI 53073

(☎) phone: (920) 892-8756, ext 3025

(✉) e-mail: Christine.Lilek@wisconsin.gov

(☎) fax: (920) 892-6638

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JEFF HOSLER
TEMCO
P.O. Box 856
Cedarburg, WI 53012

Report Date 08-Jul-11

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455A
Sample ID MW-7
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 5	ug/l	5	16	10	8260B	7/5/2011	7/5/2011	CJR	1
Bromobenzene	< 7.4	ug/l	7.4	24	10	8260B	7/5/2011	7/5/2011	CJR	1
Bromodichloromethane	< 6.8	ug/l	6.8	22	10	8260B	7/5/2011	7/5/2011	CJR	1
Bromoform	< 4.3	ug/l	4.3	14	10	8260B	7/5/2011	7/5/2011	CJR	1
tert-Butylbenzene	< 7.1	ug/l	7.1	23	10	8260B	7/5/2011	7/5/2011	CJR	1
sec-Butylbenzene	11.8 "J"	ug/l	10	33	10	8260B	7/5/2011	7/5/2011	CJR	1
n-Butylbenzene	19 "J"	ug/l	9	29	10	8260B	7/5/2011	7/5/2011	CJR	1
Carbon Tetrachloride	< 4.7	ug/l	4.7	15	10	8260B	7/5/2011	7/5/2011	CJR	1
Chlorobenzene	< 5.1	ug/l	5.1	16	10	8260B	7/5/2011	7/5/2011	CJR	1
Chloroethane	< 14	ug/l	14	45	10	8260B	7/5/2011	7/5/2011	CJR	1
Chloroform	< 4.9	ug/l	4.9	15	10	8260B	7/5/2011	7/5/2011	CJR	1
Chloromethane	< 19	ug/l	19	61	10	8260B	7/5/2011	7/5/2011	CJR	1
2-Chlorotoluene	< 7	ug/l	7	22	10	8260B	7/5/2011	7/5/2011	CJR	1
4-Chlorotoluene	< 4.4	ug/l	4.4	14	10	8260B	7/5/2011	7/5/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 28	ug/l	28	89	10	8260B	7/5/2011	7/5/2011	CJR	1
Dibromochloromethane	< 5.5	ug/l	5.5	18	10	8260B	7/5/2011	7/5/2011	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B	7/5/2011	7/5/2011	CJR	1
1,3-Dichlorobenzene	< 8.7	ug/l	8.7	28	10	8260B	7/5/2011	7/5/2011	CJR	1
1,2-Dichlorobenzene	< 7.6	ug/l	7.6	24	10	8260B	7/5/2011	7/5/2011	CJR	1
Dichlorodifluoromethane	< 18	ug/l	18	59	10	8260B	7/5/2011	7/5/2011	CJR	1
1,2-Dichloroethane	< 5	ug/l	5	16	10	8260B	7/5/2011	7/5/2011	CJR	1
1,1-Dichloroethane	< 9.8	ug/l	9.8	31	10	8260B	7/5/2011	7/5/2011	CJR	1
1,1-Dichloroethene	< 6	ug/l	6	19	10	8260B	7/5/2011	7/5/2011	CJR	1
cis-1,2-Dichloroethene	510	ug/l	7.4	24	10	8260B	7/5/2011	7/5/2011	CJR	1
trans-1,2-Dichloroethene	72	ug/l	7.9	25	10	8260B	7/5/2011	7/5/2011	CJR	1
1,2-Dichloropropane	< 4	ug/l	4	13	10	8260B	7/5/2011	7/5/2011	CJR	1
2,2-Dichloropropane	< 19	ug/l	19	59	10	8260B	7/5/2011	7/5/2011	CJR	4 8
1,3-Dichloropropane	< 7.1	ug/l	7.1	23	10	8260B	7/5/2011	7/5/2011	CJR	1
Di-isopropyl ether	< 6.9	ug/l	6.9	22	10	8260B	7/5/2011	7/5/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455A
Sample ID MW-7
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		7/5/2011	CJR	1
Ethylbenzene	17.6 "J"	ug/l	7.8	25	10	8260B		7/5/2011	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	68	10	8260B		7/5/2011	CJR	1
Isopropylbenzene	21.1 "J"	ug/l	9.2	29	10	8260B		7/5/2011	CJR	1
p-Isopropyltoluene	18.8 "J"	ug/l	9.2	29	10	8260B		7/5/2011	CJR	1
Methylene chloride	18 "J"	ug/l	11	34	10	8260B		7/5/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 8	ug/l	8	25	10	8260B		7/5/2011	CJR	1
Naphthalene	< 21	ug/l	21	68	10	8260B		7/5/2011	CJR	1
n-Propylbenzene	39	ug/l	5.9	19	10	8260B		7/5/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 5.3	ug/l	5.3	17	10	8260B		7/5/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 10	ug/l	10	32	10	8260B		7/5/2011	CJR	1
Tetrachloroethene	< 4.4	ug/l	4.4	14	10	8260B		7/5/2011	CJR	8
Toluene	< 5.3	ug/l	5.3	17	10	8260B		7/5/2011	CJR	1
1,2,4-Trichlorobenzene	< 15	ug/l	15	46	10	8260B		7/5/2011	CJR	1
1,2,3-Trichlorobenzene	< 13	ug/l	13	42	10	8260B		7/5/2011	CJR	1
1,1,1-Trichloroethane	< 8.5	ug/l	8.5	27	10	8260B		7/5/2011	CJR	1
1,1,2-Trichloroethane	< 4.7	ug/l	4.7	15	10	8260B		7/5/2011	CJR	1
Trichloroethene (TCE)	13.5 "J"	ug/l	4.7	15	10	8260B		7/5/2011	CJR	1
Trichlorofluoromethane	< 17	ug/l	17	53	10	8260B		7/5/2011	CJR	1
1,2,4-Trimethylbenzene	630	ug/l	8	25	10	8260B		7/5/2011	CJR	1
1,3,5-Trimethylbenzene	203	ug/l	7.4	24	10	8260B		7/5/2011	CJR	1
Vinyl Chloride	680	ug/l	1.8	5.6	10	8260B		7/5/2011	CJR	1
m&p-Xylene	39	ug/l	11	35	10	8260B		7/5/2011	CJR	1
o-Xylene	< 8	ug/l	8	26	10	8260B		7/5/2011	CJR	1
SUR - Toluene-d8	98	REC %			10	8260B		7/5/2011	CJR	1
SUR - Dibromofluoromethane	89	REC %			10	8260B		7/5/2011	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			10	8260B		7/5/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %			10	8260B		7/5/2011	CJR	1

Lab Code 5022455B
Sample ID MW-9
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic VOC's										
Benzene	< 500	ug/l	500	1600	1000	8260B		7/6/2011	CJR	1
Bromobenzene	< 740	ug/l	740	2400	1000	8260B		7/6/2011	CJR	1
Bromodichloromethane	< 680	ug/l	680	2200	1000	8260B		7/6/2011	CJR	1
Bromoform	< 430	ug/l	430	1400	1000	8260B		7/6/2011	CJR	1
tert-Butylbenzene	< 710	ug/l	710	2300	1000	8260B		7/6/2011	CJR	1
sec-Butylbenzene	< 1000	ug/l	1000	3300	1000	8260B		7/6/2011	CJR	1
n-Butylbenzene	< 900	ug/l	900	2900	1000	8260B		7/6/2011	CJR	1
Carbon Tetrachloride	< 470	ug/l	470	1500	1000	8260B		7/6/2011	CJR	1
Chlorobenzene	< 510	ug/l	510	1600	1000	8260B		7/6/2011	CJR	1
Chloroethane	< 1400	ug/l	1400	4500	1000	8260B		7/6/2011	CJR	1
Chloroform	< 490	ug/l	490	1500	1000	8260B		7/6/2011	CJR	1
Chloromethane	< 1900	ug/l	1900	6100	1000	8260B		7/6/2011	CJR	1
2-Chlorotoluene	< 700	ug/l	700	2200	1000	8260B		7/6/2011	CJR	1
4-Chlorotoluene	< 440	ug/l	440	1400	1000	8260B		7/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 2800	ug/l	2800	8900	1000	8260B		7/6/2011	CJR	1
Dibromochloromethane	< 550	ug/l	550	1800	1000	8260B		7/6/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455B
Sample ID MW-9
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,4-Dichlorobenzene	< 980	ug/l	980	3100	1000	8260B		7/6/2011	CJR	1
1,3-Dichlorobenzene	< 870	ug/l	870	2800	1000	8260B		7/6/2011	CJR	1
1,2-Dichlorobenzene	< 760	ug/l	760	2400	1000	8260B		7/6/2011	CJR	1
Dichlorodifluoromethane	< 1800	ug/l	1800	5900	1000	8260B		7/6/2011	CJR	1
1,2-Dichloroethane	< 500	ug/l	500	1600	1000	8260B		7/6/2011	CJR	1
1,1-Dichloroethane	< 980	ug/l	980	3100	1000	8260B		7/6/2011	CJR	1
1,1-Dichloroethene	< 600	ug/l	600	1900	1000	8260B		7/6/2011	CJR	1
cis-1,2-Dichloroethene	29800	ug/l	740	2400	1000	8260B		7/6/2011	CJR	1
trans-1,2-Dichloroethene	1100 "J"	ug/l	790	2500	1000	8260B		7/6/2011	CJR	1
1,2-Dichloropropane	< 400	ug/l	400	1300	1000	8260B		7/6/2011	CJR	1
2,2-Dichloropropane	< 1900	ug/l	1900	5900	1000	8260B		7/6/2011	CJR	4 8
1,3-Dichloropropane	< 710	ug/l	710	2300	1000	8260B		7/6/2011	CJR	1
Di-isopropyl ether	< 690	ug/l	690	2200	1000	8260B		7/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 630	ug/l	630	2000	1000	8260B		7/6/2011	CJR	1
Ethylbenzene	< 780	ug/l	780	2500	1000	8260B		7/6/2011	CJR	1
Hexachlorobutadiene	< 2200	ug/l	2200	6800	1000	8260B		7/6/2011	CJR	1
Isopropylbenzene	< 920	ug/l	920	2900	1000	8260B		7/6/2011	CJR	1
p-Isopropyltoluene	< 920	ug/l	920	2900	1000	8260B		7/6/2011	CJR	1
Methylene chloride	< 1100	ug/l	1100	3400	1000	8260B		7/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 800	ug/l	800	2500	1000	8260B		7/6/2011	CJR	1
Naphthalene	< 2100	ug/l	2100	6800	1000	8260B		7/6/2011	CJR	1
n-Propylbenzene	< 590	ug/l	590	1900	1000	8260B		7/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 530	ug/l	530	1700	1000	8260B		7/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 1000	ug/l	1000	3200	1000	8260B		7/6/2011	CJR	1
Tetrachloroethene	< 440	ug/l	440	1400	1000	8260B		7/6/2011	CJR	1
Toluene	< 530	ug/l	530	1700	1000	8260B		7/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 1500	ug/l	1500	4600	1000	8260B		7/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1300	ug/l	1300	4200	1000	8260B		7/6/2011	CJR	1
1,1,1-Trichloroethane	< 850	ug/l	850	2700	1000	8260B		7/6/2011	CJR	1
1,1,2-Trichloroethane	< 470	ug/l	470	1500	1000	8260B		7/6/2011	CJR	1
Trichloroethene (TCE)	111000	ug/l	470	1500	1000	8260B		7/6/2011	CJR	1
Trichlorofluoromethane	< 1700	ug/l	1700	5300	1000	8260B		7/6/2011	CJR	1
1,2,4-Trimethylbenzene	< 800	ug/l	800	2500	1000	8260B		7/6/2011	CJR	1
1,3,5-Trimethylbenzene	< 740	ug/l	740	2400	1000	8260B		7/6/2011	CJR	1
Vinyl Chloride	1310	ug/l	180	560	1000	8260B		7/6/2011	CJR	1
m&p-Xylene	< 1100	ug/l	1100	3500	1000	8260B		7/6/2011	CJR	1
o-Xylene	< 800	ug/l	800	2600	1000	8260B		7/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1000	8260B		7/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1000	8260B		7/6/2011	CJR	1
SUR - Dibromofluoromethane	101	REC %			1000	8260B		7/6/2011	CJR	1
SUR - Toluene-d8	89	REC %			1000	8260B		7/6/2011	CJR	1

Lab Code 5022455C
Sample ID MW-10
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 25	ug/l	25	80	50	8260B		7/6/2011	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		7/6/2011	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		7/6/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455C
Sample ID MW-10
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		7/6/2011	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		7/6/2011	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		7/6/2011	CJR	1
n-Butylbenzene	< 45	ug/l	45	145	50	8260B		7/6/2011	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		7/6/2011	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		7/6/2011	CJR	1
Chloroethane	< 70	ug/l	70	225	50	8260B		7/6/2011	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		7/6/2011	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		7/6/2011	CJR	1
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		7/6/2011	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		7/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		7/6/2011	CJR	1
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		7/6/2011	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		7/6/2011	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		7/6/2011	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		7/6/2011	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		7/6/2011	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		7/6/2011	CJR	1
1,1-Dichloroethane	53 "J"	ug/l	49	155	50	8260B		7/6/2011	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		7/6/2011	CJR	1
cis-1,2-Dichloroethene	1260	ug/l	37	120	50	8260B		7/6/2011	CJR	1
trans-1,2-Dichloroethene	187	ug/l	39.5	125	50	8260B		7/6/2011	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		7/6/2011	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		7/6/2011	CJR	4 8
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		7/6/2011	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		7/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		7/6/2011	CJR	1
Ethylbenzene	< 39	ug/l	39	125	50	8260B		7/6/2011	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		7/6/2011	CJR	1
Isopropylbenzene	< 46	ug/l	46	145	50	8260B		7/6/2011	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		7/6/2011	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		7/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 40	ug/l	40	125	50	8260B		7/6/2011	CJR	1
Naphthalene	< 105	ug/l	105	340	50	8260B		7/6/2011	CJR	1
n-Propylbenzene	< 29.5	ug/l	29.5	95	50	8260B		7/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		7/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		7/6/2011	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		7/6/2011	CJR	1
Toluene	< 26.5	ug/l	26.5	85	50	8260B		7/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		7/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		7/6/2011	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		7/6/2011	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		7/6/2011	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		7/6/2011	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		7/6/2011	CJR	1
1,2,4-Trimethylbenzene	< 40	ug/l	40	125	50	8260B		7/6/2011	CJR	1
1,3,5-Trimethylbenzene	< 37	ug/l	37	120	50	8260B		7/6/2011	CJR	1
Vinyl Chloride	3200	ug/l	9	28	50	8260B		7/6/2011	CJR	1
m&p-Xylene	< 55	ug/l	55	175	50	8260B		7/6/2011	CJR	1
o-Xylene	< 40	ug/l	40	130	50	8260B		7/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			50	8260B		7/6/2011	CJR	1
SUR - Toluene-d8	86	REC %			50	8260B		7/6/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455C
Sample ID MW-10
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	104	REC %			50	8260B		7/6/2011	CJR	1
SUR - Dibromofluoromethane	102	REC %			50	8260B		7/6/2011	CJR	1

Lab Code 5022455D
Sample ID PZ-1
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		7/5/2011	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		7/5/2011	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		7/5/2011	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		7/5/2011	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/5/2011	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/5/2011	CJR	1
n-Butylbenzene	< 0.9	ug/l	0.9	2.9	1	8260B		7/5/2011	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		7/5/2011	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		7/5/2011	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		7/5/2011	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		7/5/2011	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		7/5/2011	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		7/5/2011	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/5/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		7/5/2011	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		7/5/2011	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/5/2011	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		7/5/2011	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		7/5/2011	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		7/5/2011	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		7/5/2011	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		7/5/2011	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		7/5/2011	CJR	1
cis-1,2-Dichloroethene	12.9	ug/l	0.74	2.4	1	8260B		7/5/2011	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		7/5/2011	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		7/5/2011	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		7/5/2011	CJR	4 8
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		7/5/2011	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		7/5/2011	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/5/2011	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		7/5/2011	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		7/5/2011	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		7/5/2011	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		7/5/2011	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		7/5/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		7/5/2011	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		7/5/2011	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		7/5/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		7/5/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		7/5/2011	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		7/5/2011	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		7/5/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455D
Sample ID PZ-1
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		7/5/2011	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		7/5/2011	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		7/5/2011	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		7/5/2011	CJR	1
Trichloroethene (TCE)	90	ug/l	0.47	1.5	1	8260B		7/5/2011	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		7/5/2011	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		7/5/2011	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		7/5/2011	CJR	1
Vinyl Chloride	0.46 "J"	ug/l	0.18	0.56	1	8260B		7/5/2011	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		7/5/2011	CJR	1
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		7/5/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	88	REC %			1	8260B		7/5/2011	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		7/5/2011	CJR	1
SUR - Dibromofluoromethane	87	REC %			1	8260B		7/5/2011	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		7/5/2011	CJR	1

Lab Code 5022455E
Sample ID PZ-2
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.5	ug/l	0.5	1.6	1	8260B		7/6/2011	CJR	1
Bromobenzene	< 0.74	ug/l	0.74	2.4	1	8260B		7/6/2011	CJR	1
Bromodichloromethane	< 0.68	ug/l	0.68	2.2	1	8260B		7/6/2011	CJR	1
Bromoform	< 0.43	ug/l	0.43	1.4	1	8260B		7/6/2011	CJR	1
tert-Butylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/6/2011	CJR	1
sec-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/6/2011	CJR	1
n-Butylbenzene	< 0.9	ug/l	0.9	2.9	1	8260B		7/6/2011	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	8260B		7/6/2011	CJR	1
Chlorobenzene	< 0.51	ug/l	0.51	1.6	1	8260B		7/6/2011	CJR	1
Chloroethane	< 1.4	ug/l	1.4	4.5	1	8260B		7/6/2011	CJR	1
Chloroform	< 0.49	ug/l	0.49	1.5	1	8260B		7/6/2011	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6.1	1	8260B		7/6/2011	CJR	1
2-Chlorotoluene	< 0.7	ug/l	0.7	2.2	1	8260B		7/6/2011	CJR	1
4-Chlorotoluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 2.8	ug/l	2.8	8.9	1	8260B		7/6/2011	CJR	1
Dibromochloromethane	< 0.55	ug/l	0.55	1.8	1	8260B		7/6/2011	CJR	1
1,4-Dichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/6/2011	CJR	1
1,3-Dichlorobenzene	< 0.87	ug/l	0.87	2.8	1	8260B		7/6/2011	CJR	1
1,2-Dichlorobenzene	< 0.76	ug/l	0.76	2.4	1	8260B		7/6/2011	CJR	1
Dichlorodifluoromethane	< 1.8	ug/l	1.8	5.9	1	8260B		7/6/2011	CJR	1
1,2-Dichloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		7/6/2011	CJR	1
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.1	1	8260B		7/6/2011	CJR	1
1,1-Dichloroethene	< 0.6	ug/l	0.6	1.9	1	8260B		7/6/2011	CJR	1
cis-1,2-Dichloroethene	4.7	ug/l	0.74	2.4	1	8260B		7/6/2011	CJR	1
trans-1,2-Dichloroethene	< 0.79	ug/l	0.79	2.5	1	8260B		7/6/2011	CJR	1
1,2-Dichloropropane	< 0.4	ug/l	0.4	1.3	1	8260B		7/6/2011	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	8260B		7/6/2011	CJR	4 8
1,3-Dichloropropane	< 0.71	ug/l	0.71	2.3	1	8260B		7/6/2011	CJR	1
Di-isopropyl ether	< 0.69	ug/l	0.69	2.2	1	8260B		7/6/2011	CJR	1

Project Name EXFOLIATE
Project #

Invoice # E22455

Lab Code 5022455E
Sample ID PZ-2
Sample Matrix Water
Sample Date 6/28/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/6/2011	CJR	1
Ethylbenzene	< 0.78	ug/l	0.78	2.5	1	8260B		7/6/2011	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	6.8	1	8260B		7/6/2011	CJR	1
Isopropylbenzene	< 0.92	ug/l	0.92	2.9	1	8260B		7/6/2011	CJR	1
p-Isopropyltoluene	< 0.92	ug/l	0.92	2.9	1	8260B		7/6/2011	CJR	1
Methylene chloride	< 1.1	ug/l	1.1	3.4	1	8260B		7/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.8	ug/l	0.8	2.5	1	8260B		7/6/2011	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.8	1	8260B		7/6/2011	CJR	1
n-Propylbenzene	< 0.59	ug/l	0.59	1.9	1	8260B		7/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	8260B		7/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 1	ug/l	1	3.2	1	8260B		7/6/2011	CJR	1
Tetrachloroethene	< 0.44	ug/l	0.44	1.4	1	8260B		7/6/2011	CJR	8
Toluene	< 0.53	ug/l	0.53	1.7	1	8260B		7/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 1.5	ug/l	1.5	4.6	1	8260B		7/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1.3	ug/l	1.3	4.2	1	8260B		7/6/2011	CJR	1
1,1,1-Trichloroethane	< 0.85	ug/l	0.85	2.7	1	8260B		7/6/2011	CJR	1
1,1,2-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	8260B		7/6/2011	CJR	1
Trichloroethene (TCE)	10.6	ug/l	0.47	1.5	1	8260B		7/6/2011	CJR	1
Trichlorofluoromethane	< 1.7	ug/l	1.7	5.3	1	8260B		7/6/2011	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.5	1	8260B		7/6/2011	CJR	1
1,3,5-Trimethylbenzene	< 0.74	ug/l	0.74	2.4	1	8260B		7/6/2011	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	8260B		7/6/2011	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.5	1	8260B		7/6/2011	CJR	1
o-Xylene	< 0.8	ug/l	0.8	2.6	1	8260B		7/6/2011	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		7/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		7/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		7/6/2011	CJR	1
SUR - Dibromofluoromethane	91	REC %			1	8260B		7/6/2011	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 4 The continuing calibration standard not within established limits.
- 8 Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael J. Ricker

CHAIN OF CUSTODY RECORD

Synergy

Chain # No. 8097

Page 1 of 1

Sample Handling Request

____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)

☒ Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	
Sampler: (signature) 	

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Project (Name / Location): EXFOLIATE / OAKFIELD WI	
Reports To: J. L. HOSLER	Invoice To: RANDY MUELLER
Company: TELLO	Company: EXFOLIATE
Address: PO BOX 143	Address: 201 MAIN ST
City State Zip: CEDARBURG WI 53012	City State Zip: OAKFIELD WI
Phone: 262 675-6206	Phone:
FAX:	FAX:

Analysis Requested

Other Analysis

[illegible]

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

INVOICE TO TERCIO

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Air

Temp. of Temp. Blank. _____ °C On Ice: X

Cooler seal intact upon receipt: ☒ Yes ☐ No

Relinquished By: (sign)

Time

Date _____

Received By: (sign)

Time

Date _____

Received in Laboratory By:

Time: 8:20

Date: 6/3/11