









## **Wisconsin Department of Natural Resources**

Attn: BJ LeRoy 1027 West St. Paul Avenue Milwaukee. WI 53233

# Subject:

Schmalz Unlicensed Dump W7258 Firelane 2 Town of Harrison, Calumet County, WI 54952 WDNR BRRTS #02-08-000169

# Dear BJ:

The following is a summary of re-development and sampling activities at the Schmalz Unlicensed Dump site. The approved scope of work included redevelopment of monitoring well MW5, and collection of two (2) rounds of groundwater samples for total dissolved chromium.

Monitoring well development and the initial sampling event were conducted on March 23, 2023. Based on the volume of water in the well casing and filter pack, a total of thirty (30) gallons of water was removed from the well. Development was conducted by surging with a stainless steel bailer and purging with a submersible pump. The development form is included in Attachment A. Purge water was disposed of at the Wausau Waterworks wastewater treatment plant. Disposal documentation is in Attachment B.

Sampling was conducted using low-flow techniques with a peristaltic pump through a flow cell with constant field measurements for temperature, conductivity, dissolved oxygen, pH and redox potential. Samples were collected once readings stabilized. Samples were field filtered with a 0.45 micron filter, followed by a 0.10 micron filter. Field notes are included in Attachment C.

The results of sampling are summarized on the attached relevant portion of Table 1 for MW5. The previous sampling event was conducted on October 31, 2017, the results from which were 237 ug/L chromium. The results of REI sampling were 213 and 194 ug/L on March 23 and June 13, 2023 respectively. The complete laboratory reports are in Attachment D.

Thank you for allowing REI to assist you with this project. Please contact me at (715) 675-9784 or adelforge@REIengineering.com if you have questions or would like to discuss this further.



WDNR Attn: BJ LeRoy July 12, 2023

Sincerely, REI Engineering, Inc.

Andrew R. Delforge, P.G. Senior Hydrogeologist

1- 6 1hm



# Analytical Results for MW-5 Schmalz Dump Superfund Site

# TABLE 1 (continued)

PARAMETER	UNITS	Aug-93	No	v-93	Feb-94	Jun-94	4/2	1/1998	7/2	21/1998		11/2/ <sup>-</sup>	1998		9/9/	2003	10/12	2/2004	7/30	/2008	11/18/	2009
Metals, dissolved				Duplicate				Duplicate		Duplicate	LF-NF	Duplicate	LF-F	Duplicate	LF-F	Duplicate		Duplicate		Duplicate		Duplicate
Arsenic	ug/l	< 3.0	< 100	< 100	< 100	< 100	2	2.9	3.3	1.5	3.9	2.8	2.5	5.1	-	-	3.1	3.4	15	14	<5.0	<5.0
Barium	ug/l	350	370	370	310	320	460	470	460	450	550	520	540	550	482	486	496	491	470	466	459	450
Cadmium	ug/l	< 10	<10	<10	<10	< 10	0.02	0.04	0.2	0.08	0.17	0.25	0.06	<0.04	<0.05	< 0.05	0.08	0.05	<0.5	<0.5	<0.5	<0.5
Chromium	ug/l	340	210	200	190	200	160	170	170	170	180	170	170	170	182	180	236	223	450	421	379	357
Lead	ug/l	<50	< 50	< 50	< 50	< 50	< 0.4	< 0.4	<0.8	< 0.8	<0.8	< 0.8	<0.8	< 0.8	<1.0	<1.0	<1.0	<1.0	<3.0	<3.0	<3.0	<3.0
Mercury	ug/l	<0.20	< 0.20	< 0.20	< 0.20	< 0.20	NA	NA	NA	NA	NA	NA	NA	NA	< 0.03	< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Selenium	ug/l	<3	< 100	< 100	< 100	< 100	6	2	3	<1	< 1	< 1	< 1	< 1	-	-	<1.0	<1.0	<10	<10	<10	<10
Silver	ug/l	<10	<10	<10	<10	< 10	0.2	0.3	< 0.2	< 0.2	< 0.2*	< 0.2*	< 0.2	< 0.2	<0.1	<0.1	<0.1	<0.1	4	4	<2.0	<2.0
Common Anions																						
Fluoride	mg/l	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	60	65	65	59	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite as N	mg/l	< 0.36	<0.36	< 0.36	< 0.36	< 0.45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromide	mg/l	0.18	0.19	0.2	0.17	0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate as N	mg/l	< 0.028	< 0.025	< 0.025	< 0.025	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	430	400	400	350	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs																						I
PCB 1016	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1221	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1232	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1242	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1248	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1254	ug/l	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB 1260	ug/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Pesticides</u>	ug/l	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<u>Miscellaneous</u>																						
TOX	ug/l	109	206	73.2	99	42.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOC	mg/l	182	316	247	360	259	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TSS	mg/l	34	140	24	7	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	mg/l	< 0.020	< 0.020	< 0.020	< 0.020	0.0384	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

LF-NF=Low Flow Sampling Technique and Not Filtered

LF-F=Low Flow Sampling Technique and Filtered

- =Not avail. at print

NA =Not Analyzed

ND =Not Detected> PQI

PQI =Practical Quantitation Limit

NS = No Standard

Bold Type =NR 140 PAL Exceedance

Bold Italic Type =NR 140 ES Exceedance

\* =See NR 140 for Pesticide Standards

# Note:

The shaded portion of the table was re-created from hard copy using optical character recognition (OCR).

The OCR output was manually reformatted and checked Mike Stiefvater 5-August-2008

<sup>\*</sup> Matrix Spike QC Exceeded

TABLE 1 (continued) MW-5 Page 2

11/2	/2010	11/22	2/2011	11/20	/2012	10/31	/2017	3/23/2023	6/13/2023	Chart	NR 140	NR 140
	Duplicate		Duplicate		Duplicate		Duplicate				PAL	ES
<5.0	<5.0	11	11	<5.0	<5.0	<5.0	<5.0	NA	NA		5	50
447	454	431	434	500	477	271	293	NA	NA	~~~	400	2000
<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16.8	18.8	NA	NA	_~~	0.5	5
432	461	447	463	452	415	211	237	213	194	}	10	100
<3.0	<3.0	<3	<3	<3.0	<3.0	<3.0	<3.0	NA	NA		1.5	15
< 0.03	<0.03	< 0.03	< 0.03	< 0.03	< 0.03	<0.03	< 0.03	NA	NA		0.2	2
55	53	27	13	15	17	18	11.7	NA	NA		10	50
<2.0	<2.0	<2	<2	6	6	5.71	6.25	NA	NA		10	50
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NS	NS
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		125	250
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.2	1
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	~	NS	NS
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		2	10
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		125	250
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		0.003	0.03
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		*	*
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	۸	NS	NS
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	~	NS	NS
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	٨	NS	NS
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		1.2	6

# **ATTACHMENT A**

# MONITORING WELL DEVELOPMENT FORM (4400-113B)



State of Wisconsin Department of Natural Resources

# MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wast	ewater	Waste Management			
Remediation/Re	development 🔲	Other			
Facility/Project Name	County Name	<del></del>	Well Name		
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Nu	  mber 	DNR We	ell ID Number ———
1. Can this well be purged dry?	Yes □ No	11. Depth to Water	Before Dev	elopmen	t After Development
surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly Other   3. Time spent developing well  4. Depth of well (from top of well casisng)	4 1 6 1 4 2 6 2 7 0 2 0 1 0 5 1 5 0	well casing)  Date	b/	/ a.m.   _ p.m.   _ inches   0   5	y y m m / d d / y y y y g a.m.  —
7. Volume of water removed from well	gal. gal. gal.	<ul><li>14. Total suspended solids</li><li>15. COD</li></ul>	s were used a	nd well is mg/l	at solid waste facility:mg/lmg/l
10. Analysis performed on water added?	Yes 🗆 No	16. Well developed by First Name: Firm:	y: Name (first, l	ast) and Firn Last Nam	
17. Additional comments on development:  Name and Address of Facility Contact/Owner/Responsi	ble Party	T 71			
First Last Name: Name: Name:		I hereby certify that of my knowledge.	t the above int	formation .	is true and correct to the best
Facility/Firm:		Signature:	_ K	$\ell$	
Street:		Print Name:			
City/State/Zip:		Firm:			

# **ATTACHMENT B**

# PURGE WATER DISPOSAL DOCUMENTATION

Date: 8-8-07

# SPECIAL DISCHARGE FORM

GROUNDWATER CLEANUP PROJECTS

This form is intended to document the discharge of contaminated groundwater or process waters into the Wausau Wastewater Treatment Facility. Sewerage Utility billing for this discharge will be directly to the party listed below.

Source of Water:	Monitoring Well purge Water	
	Up to 500 gallons, no free product,	no
	strong or volatile odors	11
Party Responsible f	for Utility Charges:	
	Dave Larsen	1
	REI Engineering Inc.	GL#
	4080 N 20th Ave	
^	Maisan WI 54401	
4	0 (-)	
Approved By: U	1 Sewerage Utility	0
TO BE COMPLETED BY	WASTE HAULER	# A
Name of Waste Haule	r:	
	REI Engineering,Inc	
	Date 3/27/23	
resident to the same.	5 and a shared 355 Gallons	
Approximate quantit	y of water discharged: 355 Gallons	
Date of Discharge:	3/27/23	
Time of Discharge:		
Special Discharge F	form, the hauler will not be billed for the equest has been completed to obtain author but please notify treatment plant operator ase, solids, or sediments, has a strong	if water

THIS FORM TO BE SUBMITTED TO SEWERAGE UTILITY BY WASTE

Bt morrs 9321A BG1PHE 459M \$18,90  Schmalz Dung 10635 3090 \$12.60  Kunk trig 656 56144 DG4 8010 \$33.60		HAUL	ER AT TIME OF	DISCHARGE	
8t Marys 9321A BG1PHE 45901 \$18,90 Schmalz Dung 10635 30901 \$12.60 Kurk tray 656 5614H DG4 80101 \$33.60	GPM 4495	14-71019		200 901	\$8400
Schmall Dung 10635 3090 \$12.60 Kurk tray 656 5614H DG74 80901 933.60	Bt movys	93214	BGI PHE	45gal	\$ 18.90
Kurk tray 656 56 14A DG 4 80 gad 9 33.00	Schmall Dump	10635	\$160 a	30901	\$ 12.60
	Kunk try 656	5614A	DG 4	Egal	9 33,66

Date: 8-8-07

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Source of Water:	Monitoring Well purge W	ater	
	Up to 500 gallons, no	Free prod	act, no
	strong or volatile odors		111
Party Responsible	for Utility Charges:		
	Dauc Larsen		
	REI Engineering Inc.		# 10
	4080 N 20th Ave		
	Maisan WI 54401		35
Approved By:	) (J		# ate # pproved By
Maus	au Sewerage Utility		1 g
TO BE COMPLETED BY	WASTE HAULER	ř	A P # A
Name of Waste Haule	er:		
	REI Engineering, Inc		
	Date 6-19-23		
Approximate quanti	ty of water discharged: 1166G	allons	
Date of Discharge:	6/19/23		
Time of Discharge:			
Special Discharge	form, the hauler will not be Request has been completed to but please notify treatment p	optain au	ILHOLIZACIO

By submitting this form, the hauler will not be billed for this load. Special Discharge Request has been completed to obtain authorization for this discharge but please notify treatment plant operator if water contains oil, grease, solids, or sediments, has a strong odor or otherwise appears unsuitable for discharge into the treatment plant.

THIS FORM TO BE SUBMITTED TO SEWERAGE UTILITY BY WASTE

	HAULE	R AT TIME OF D	ISCHARGE	
10635	Schnak Dump		190110115	
1A-13486	Fast Break		250 Sallens	
80.56	BUS garage	BGS PHIII	35 gellons	
61348	Phillips Platny		215 Gollons	
9.32/14	ST Mery's	1361 PHB	40 gallons	
17-73375	6hm 4512		300 gallons	
4-73396	The ladge Colat Fell'S		50 Sallons	
6529A	Boat house		275geNons	

# ATTACHMENT C FIELD NOTES

- hell De KEI o.	1714.0	(1	1			and the same of th				
,	1	Marie .	10001	1 /		A				1.
our 4			Collee			Y			1	
Sonsle						3		1	1.	
							3	1	6/	
		,			2			42.	3	-
- 4			Flow						1	
						1				
ne	offsite					1				
			-				-			
1-11	<i>[1]</i>	10	in Sur	le						
		(	Total (	)						
30 6	a llong	Purge	two							
5 1	1	. /	711	b			2			
7 /	Flore	or to	L. 1-11	£/_						
tack	14)(1	m, re	70 p	601						
										d
	Sals 11. MEI	Sce file st Constate de Connecce Salstry. NEI offsike 2 MCI	Sce file shets. Constite declor- Connece Ca- Salsly.  MEI offsite.  2 MII (	Sce file shets.  Conslike declosent of  South Man.  MEI offsite.  1 Ch Sur  (Total (  30 Gallers, Perge tro	Constite darlosent of Connece Ca - Flow Sals/12.	Constate declarant of Connece Con- Flow Salsty.  MEI offsike.  Dellas Perge tro  Tyler Faler ongth to pell out tout.	Sce field Shetz.  Conslike declarant of  Connence Con- Flow  Salsly.  MEI offsike.  1 Aug Con Surgle  Total ()  30 Gallons Perge from	Constate declarant of Constate declarant of Constate declarant of Constate declarant of Constate  Late of site.  Late of site.  The Falir on the following field.	See fill shets.  Consider declarant of  Connecce Ca - Flow  Satistry.  MEI offace.  Dellas Surce  (Total C.)  30 Callens Perze fro  Truck stack in fill. REI  Truck Falir onsich for fill out  fred.	See fill shets.  Conslate declorant of  Connece Con- Abin  Salsty.  MEI offsite.  1 Ch Suste  (Total C)  30 Callers Perge tro  Trul start in field. Fill  Trule Fasir onsite to full out  trule.

TO T	777			Well Dev	elopment	Field Shee	t		
A	REI					Project:			
CIVIL & ENVIR ENGINEERING,						Project Num	ber:		
ENGINEERING,	SURVEYING					Date:			
						Field Tech:			
Well ID	1.	-					Ī	T	
	MW.5			3=					
Well Depth (ft BTOC)	24.80				4				
Vell Diameter (in)	8.		1						
Borehole Diameter (in)	2		4						
Start Depth to Water (ft BTOC)	3.52		1		1				
Start Time	144		3				7		
Can Well Be Pured Dry	X			t.F					
Surged (Times)	HI			Flor					
Volume Purged (gal)	30		1. 2					100	
Stop Depth to Water (ft BTOC)	24.80								
Stop Time	1500			1	100				
Turbidity	N								/
Color	6								/
Odor	N								/
Sediment (in)	-/-								
Method	19/3								
Comments	Car				5)(				
	1515	v							

	₹ I-: I		ow-Flow M							(in
						Well Diamete	r:			(ft BTOC
VIL & ENVI	SURVEYING					Well Depth (1	0):			(ft BTOC
OINLLIAM	(1)	& Den	0			Depth to Wat	er (d):			(ft BTOC
ject:	Sch na	6 1700				Depth to Proc	luct:			(ft
ject Numb	er:	0635				Water Colum	n: (D-d)=			
te:	3(2)	7				Well Volume	(V"):	(gal)	x3=	(gal
mpler:	1/4						Water Column	k Mulitplier)		
						Stabilized Wa	ter Depth (s	):		(ft BTOC
	44-5					Pump Start D	rawdown (S)	(d-s)=		(f
	YSI Pro Plus		1 Metar			Drawdown V	-lume (m):			(ga
ater Level:	Solinst 101 P	2 Water Leve	el Meter			Drawdown V	olulie (111).			
ımp: Geopi	ımp Peristalt	ic					_			(ga
ump Intake	Depth:			(ft bls)		Tubing Volum	ne (T):	TD =		(ga
ubing Leng	th (t):	(ft) Tul	oing Diameter	: (in	)	Minimum Pur	ge (M): (m+	1)=		- 12
	(4).	3.7	Measurem	ents begin a	fter water le	vel has stabili	zed in well.			
	Depth to	Purge	Flow	- John Dogan	Control of the last of the las	Specific	ORP	DO -	Turbidity	Visual
Time	Water	Volume	Rate /	pH	Temp	Cond	(mV)	(mg/L)	(NTU)	Appearanc
	(B-BTQC)	(gal)	(gal/min)		(°F)	(µS/cm)		2.40		
1505	1.1	1943	. 3	6.89	7.5	3361	35.4	-		
1508	, ,	-	16	(91	47.4	336	29.9	1.96		-
		1 4	.9	6.90	477	3769	27.8	1.75		-
1511			,	6.10	422	3361	29.0	1,81		
1574		0		N )*(V	71.1	1,01	The state of			
(1)						100		q. T		
				+	-					
						1				
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									1	
						•	A		-	
				•		V				
										1
								0		
								, , , , ,	e at the follows	ng criteria:
	1:	three (3) conse	cutive readings o	field indicator	parameters col	lected in three (3	) to five (5) min	te intervals in	10% 3	-
Stabilization is	achieved when	<3xV <sup>w</sup>		± 0.1	± 3%	± 3%	± 10mV	± 10%	1070	
Stabilization:	<0.3 ft		able to turn ove	one (1) flow o	cell volume be	tweeen measu	rement. Flow	ell ~250mL.	ta d atabili	nad
	- Pump now	rate must be	able to turn ove nan 0.5 mg/L, th	ree (3) Dissolv	red Oxygen n	neasurments les	ss than 0.5 mg	L can be cons	sidered stabili	zeu.
	- 10% for va	lues greater ti	nan 0.5 mg/L, th	(3) Turbidity	measurments	less than 5 NT	U can be consi	dered stabiliz	ea.	Duggoduro
	- 10% for va.	motore etal	nan 5 NTU, three bilize or after	three (3) We	ell Volumes	are remove			Diawdowi	Liocedule
Purge	until all para	uneters star	J	(gal)						
Total Volum	ne Purged (P)				-	- Flow rate go	enerally between	en 100 mL/m	in to 500 mL/n	nin.
Purge Time	(T)			(min)	-7	Flour rate of	n range betwe	en 50 mL/mi	n to 1,000 mL/	min.
Sample Tim		<15			-	- Flow rate Ca		/		
OC Sample		N					N			
QC Darriple	^	14				Repairs Co	mpleted:	/		
TT - 11 T-4	(2					Repairs Ne	eded: /			
Well Integr	ity.				Analysi	s	A SERVICE	10		
							Total M ta	S		
45	VOC (EPA 8	3260)		VOC DW (E		-	Dissolved	Metals - Fiel	d Filtered	
	PVOC+N (E			Nitrate/Nitr	ite	_	pH - Field	Filtered		
	РАН (ЕРА 8			Sulfate				mercu		
	GRO	7.9		Chloride			PFAS	1 (1		
	DRO			TSS		X	- Tota	1 (1		
	- DICO						1-			
Comments:										-
										100 March 1997
15										THE REAL PROPERTY.
										MA

(ACC)	DII	-	Low-Flow	/Iinimal D	rawdown	Procedure	Field She	et		
(第)	REI					Well Diamet	er: Z			(le)
CIVIL & EN	VIRONMENTA	L				Well Diamet	(D):			(in) (ft BTOC)
	ING, SURVEYING	1. 1	und			Depth to Wa		.89		(ft BTOC)
Project:	1ch-		UM.			Depth to Pro	oduct:			(ft BTOC)
Project Nur	1	011				Water Colur				(ft)
Date: 6	113/27					Well Volume			x3=	(gal)
Sampler: Well ID:	CIC	1-					(Water Column			
	MUV-	)					later Depth (			(ft BTOC)
	r: YSI Pro Plus		111				Drawdown (S	): (d-s)=		(ft)
	el: Solinst 101		rel Meter			Drawdown V	Volume (m):			(gal)
ump Intak	pump Peristal	inc		/fs 1-1-1						
ubing Len		(ft) Tu	bing Diamete	(ft bls)		Tubing Volu		m -		(gal)
ubing ben	gur (c).	(11) 11	-				irge (M): (m+	·T)=		(gal)
-	Depth to	Durana	Measuren	nents begin a	fter water le	vel has stabil	ized in well.			
Time	Water	Purge Volume	Flow Rate	pH	Temp	Specific	ORP	DO	Turbidity	Visual
The same	(ft BTOC)	(gal)	(gal/min)	PIL	(°F)	(µS/cm)	(mV)	(mg/L)	(NTU)	Appearan
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ollization is a	chieved when the	ree (3) consecu	tive readings of f	ield indicator p	arameters colle	ected in three (3)	to five (5) minu	ite intervals 1 me		criteria
bilization:	<0.3 ft	<3xV <sup>w</sup>	-	± 0.1	±3%	±3%	± 10mV	± 10% 2	10% 3	W
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	- 10% for value									-
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ple Time:		45				- Flow rate can	range between	n 50 mL/min t	o 1,000 mL/mi	n.
Sample C	ollected:						1.1.1			
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P			C	hloride		F	PFAS	1.1	1	2
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P. G	PVOC+N (EPA PAH (EPA 8270 GRO	-	T	SS		*	7 0141	01)100010		L
P. P. G. D	PVOC+N (EPA PAH (EPA 8270 GRO	=	T	SS		*	1 0141	D1) 00010		-
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Rete in the Rain

# ATTACHMENT D LABORATORY ANALYTICAL REPORTS





March 28, 2023

Chase Kresl REI

,

RE: Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

#### Dear Chase Kresl:

Enclosed are the analytical results for sample(s) received by the laboratory on March 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

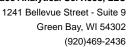
Brian Basten brian.basten@pacelabs.com (920)469-2436

Project Manager

**Enclosures** 

cc: Kaylin Felix, REI







## **CERTIFICATIONS**

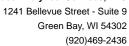
Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

#### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A





# **SAMPLE SUMMARY**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40259854001	MW-5	Water	03/23/23 15:15	03/25/23 09:00





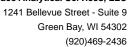
# **SAMPLE ANALYTE COUNT**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40259854001	MW-5	EPA 6010D	SIS	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay





## **ANALYTICAL RESULTS**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

Date: 03/28/2023 04:10 PM

Sample: MW-5 Lab ID: 40259854001 Collected: 03/23/23 15:15 Received: 03/25/23 09:00 Matrix: Water **Parameters** Results Units LOQ LOD DF Prepared CAS No. Analyzed Qual 6010D MET ICP, Dissolved Analytical Method: EPA 6010D Pace Analytical Services - Green Bay Chromium, Dissolved 213 ug/L 10.0 2.5 03/27/23 18:56 7440-47-3



#### **QUALITY CONTROL DATA**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

QC Batch: 440911

QC Batch Method: **EPA 6010D**  Analysis Method:

**EPA 6010D** 

Analysis Description:

ICP Metals, Trace, Dissolved

Analyzed

102

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40259854001

METHOD BLANK: 2531797 Matrix: Water

Associated Lab Samples:

40259854001

Parameter Units

Blank Result Reporting Limit

Qualifiers

Chromium, Dissolved <2.5 10.0 03/27/23 18:13 ug/L

LABORATORY CONTROL SAMPLE: 2531798

Parameter

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Chromium, Dissolved

Date: 03/28/2023 04:10 PM

Units ug/L

250

256

2531800

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2531799

MSD

40259747001 Parameter Units Result

MS Spike Spike Conc.

MS Result

MSD Result

MS % Rec

MSD % Rec

% Rec **RPD** Limits

Max RPD

Chromium, Dissolved ug/L <5.1 500

Conc. 500

514 518

103

104 75-125

Qual 20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 03/28/2023 04:10 PM



Green Bay, WI 54302 (920)469-2436

# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40259854

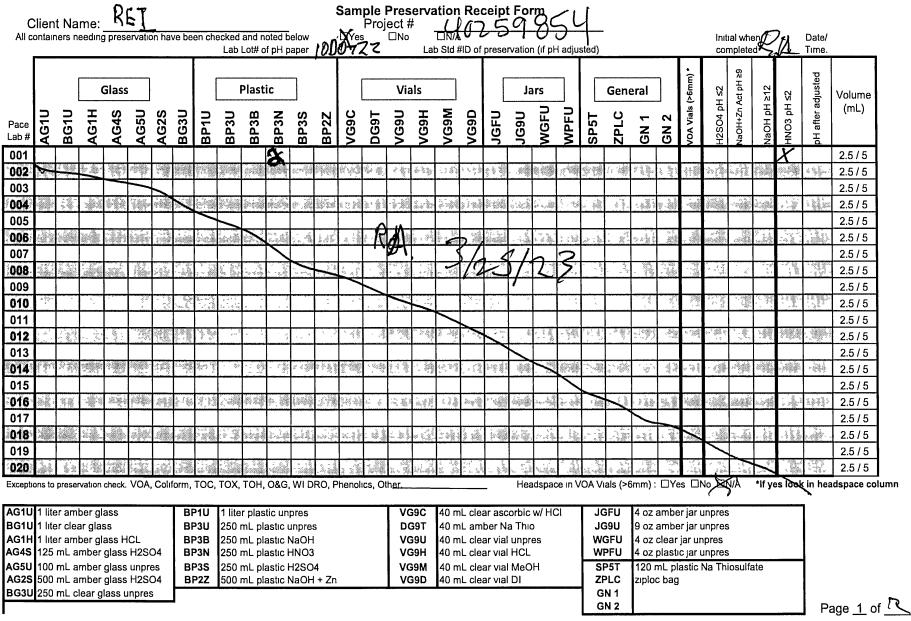
Date: 03/28/2023 04:10 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40259854001	MW-5	EPA 6010D	440911		

CHAIN-OF-CUSTODY Analytical Request Document  Pace Analytical*									LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here											
Company:	Chain-c	f-Custody	is a LEGAL I Billing Info		T - Comple	te all releve	nt fields													59854
AEI Enimen lac			Dinnig into	(AME)					ALL SHADED AREAS are for LAB USE ONLY											
Address: VV he h	Rusa Ul		]	841	nef				Container Preservative Type ** Lab Project Manager:								ct Manager:			
Report To: Cres	, , , ,		Email To:	mail To:					** Preservative Types (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate,								sodium hydroxide, (5) zinc acetate,			
Copy To:			Site Collec	tion Info/A	Address:				(6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other											
Customer Project Name/Number:			*>	County/Cı		ime Zone Co	llostodi						Analy			, (-,			Lab Profile	e/Line:
	10635	-	/	County/Ci	. ,	PT[]MT		[ ]ET								1				ample Receipt Checklist:
Phone: 7/1675 9187	Site/Facility ID		<u> </u>		Compliar	nce Monitori	ng?												Custo	dy Seals Present/Intact Y N NA Signatures Present Y N NA
Email: Christeriles Luin.	<u>-</u>				[ ] Yes	[ ] No								İ					Collect Bottle	etor Signature Present Y N NA
Collected By (print):	Purchase Orde Quote #:	r#:			DW PWS	ID #: tion Code:										İ			Suffic	ct Bootles Y N NA cient Volume Y N NA
Collected/By (signature):	Turnaround Da	te Require	 ed:			tely Packed	on Ice:		V										Sample	es Received on Ice Y N NA Headspace Acceptable Y N NA
11		•			[ <b>X</b> Yes	[ ] No													USDA F	Regulated Sails Y N NA es in Holding Time Y N NA
Sample Disposal: [ ] Dispose as appropriate [ ] Return	Rush:	ne Day	[ ] Next Da		Field Filte	ered (ıf appli No	cable):		1 3		*		*						Residu	ual Chlorine Present Y N NA
[ ] Archive.	[ ] 2 Day [	•		•		• •			) Je 1		,		1			ľ				e pH Acceptable Y N NA
[ ] Hold	<u> </u>	xpedite Cha							Ũ						1		- 1		Sulfic	de Present Y N NA
* Matrix Codes (Insert in Matrix box Product (P), Soil/Solid (SL), Oil (OL		Air (AR), Tı	ssue (TS), B	oassay (B)					- *		* *						,		LAB US	Acetate Strips:
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite End Cl Ctns  Date Time Date Time			10		*		est s <sup>no</sup>	ž.	1		τ,		Lab	ample # A Comments:			
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			Packing M	aterial Use	ed:	H				Lab	Trackir	ng #:	2	278	29	99	1		*	Therm 10#:
								<del></del>		Sam	ples re	ceive		. , .			<del>-</del>	·		Cooler 1 Terep Upon Receipt:oC Cooler 1 Therm Corr. Factor:oC
			Radchem sample(s) screened (<500 cpm):					f NA			FEDEX			Client	Co	urier	Pa	ce Co	urier	Cooler 1 Corrected Temp:oC
Relinquished by/Company: (Signatu	re)	1	Date/Time: Received by/Company: (Signature)					ture)		$\Box$	Date/1	Γime:			<del>/-</del>	MTJL	LAB	USE O	NLY	Comments
Cha-41		3/	/26/23 (co)					]					Table					<b>↓</b> ∨		
Relinquished by/Company: (Signatu	ire)	Date	ate/Time: Received by/Company: (Signature)						Date/			~ A~	Temn	late:	\		e	Trip Blank Received: Y N NA		
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Relinquished by/Company: (Signatu	ire)	Date	e/Time:		Received	by/Company	/: (Signa	ture)			Date/				PM:	(	$\Box$	\		Non Conformance(s): Page 9 of 11
											PB:	**			<u> </u>	YES / No. of:				

DC#\_Title: ENV-FRM-GBAY-0035 v03\_Sample Preservation Receipt Form

Effective Date: 8/16/2022



DC#\_Title: ENV-FRM-GBAY-0014 v03\_SCUR

Effective Date: 8/17/2022

#### Sample Condition Upon Receipt Form (SCUR) Project #: 0#:40259854 Client Name: ReT Fed Ex Speedee Sups ☐ Race Other: Tracking #: Custody Seal on Cooler/Box Present: ves in no Seals intact: ves in no Custody Seal on Samples Present: yes mo Seals intact: ☐ yes ☐ no Packing Material: ☑ Bubble Wrap 😿 Bubble Bags 🔲 None 🔲 Other Type of Ice: Wet Blue Dry None Meltwater Only Thermometer Used Person examining contents: **Cooler Temperature** Uncorr 🗸 Biological Tissue is Frozen: Tyes no Temp Blank Present: 🔲 no Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped on Dry Ice. Labeled By Initials Yes □No □N/A 1. Chain of Custody Present: Y Yes □No □N/A Chain of Custody Filled Out: Yes DNo □N/A Chain of Custody Relinquished: Yes DNo DN/A Sampler Name & Signature on COC: Yes □No Samples Arrived within Hold Time: ☐Yes ☐No Date/Time: - DI VOA Samples frozen upon receipt □Yes No Short Hold Time Analysis (<72hr): Rush Turn Around Time Requested: □Yes 🚧o 8. Sufficient Volume: **(**)Yes □No MS/MSD: □Yes □No □N/A For Analysis: Yes □No Correct Containers Used: R.A 3/29/27 Correct Type: Pace Green Bay ¥úYes □No Containers Intact: Yes □No □N/A Filtered volume received for Dissolved tests 11. Maryes □No Sample Labels match COC: Matrix W -Includes date/time/ID/Analysis ☐Yes ☐No 13. Trip Blank Present: □Yes □No Trip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased): If checked, see attached form for additional comments Client Notification/ Resolution: Date/Time: Person Contacted: Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample login

Page\_\_\_of\_\_





June 23, 2023

Chase Kresl REI

,

RE: Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

#### Dear Chase Kresl:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

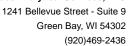
Brian Basten brian basten @pacelabs.com

(920)469-2436 Project Manager

Enclosures

cc: Kaylin Felix, REI







#### **CERTIFICATIONS**

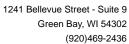
Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

#### Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

South Carolina Certification #: 83006001 Texas Certification #: T104704529-21-8 Virginia VELAP Certification ID: 11873 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-21-00008 Federal Fish & Wildlife Permit #: 51774A





# **SAMPLE SUMMARY**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40263650001	MW-5	Water	06/13/23 12:45	06/15/23 08:00





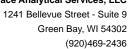
# **SAMPLE ANALYTE COUNT**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40263650001	MW-5	EPA 6010D	SIS	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay





# **ANALYTICAL RESULTS**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

Date: 06/23/2023 01:12 PM

Sample: MW-5	Lab ID:	40263650001	Collecte	d: 06/13/23	3 12:45	Received: 06	Received: 06/15/23 08:00 Matrix: Water						
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual				
6010D MET ICP, Dissolved	•	l Method: EPA 6 alytical Services		у									
Chromium, Dissolved	194	ug/L	100	25.3	10		06/22/23 11:21	7440-47-3					

(920)469-2436



#### **QUALITY CONTROL DATA**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

QC Batch: 447948

QC Batch Method: **EPA 6010D**  Analysis Method:

**EPA 6010D** 

Analysis Description:

ICP Metals, Trace, Dissolved

Laboratory:

Pace Analytical Services - Green Bay

Associated Lab Samples: 40263650001

METHOD BLANK: 2572236 Matrix: Water

Associated Lab Samples: 40263650001

Blank

Units Result Reporting Limit

Qualifiers Analyzed

Chromium, Dissolved <2.5 10.0 06/22/23 10:52 ug/L

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Date: 06/23/2023 01:12 PM

Parameter

2572237

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Units Chromium, Dissolved ug/L 250 254 102

40263692001

Result

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2572238

MSD MS Spike Spike

250

MS

2572239

258

MSD

MSD

MS

% Rec

103

% Rec

Max

<0.0025 Chromium, Dissolved ug/L

Units

mg/L

Conc.

Conc. Result

250

Result

259

% Rec

104

80-120

Limits

**RPD** RPD

Qual 20 75-125 0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



#### **QUALIFIERS**

Project: 10635 SCHMALZ DUMP

Pace Project No.: 40263650

#### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

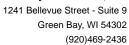
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 06/23/2023 01:12 PM





# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 10635 SCHMALZ DUMP

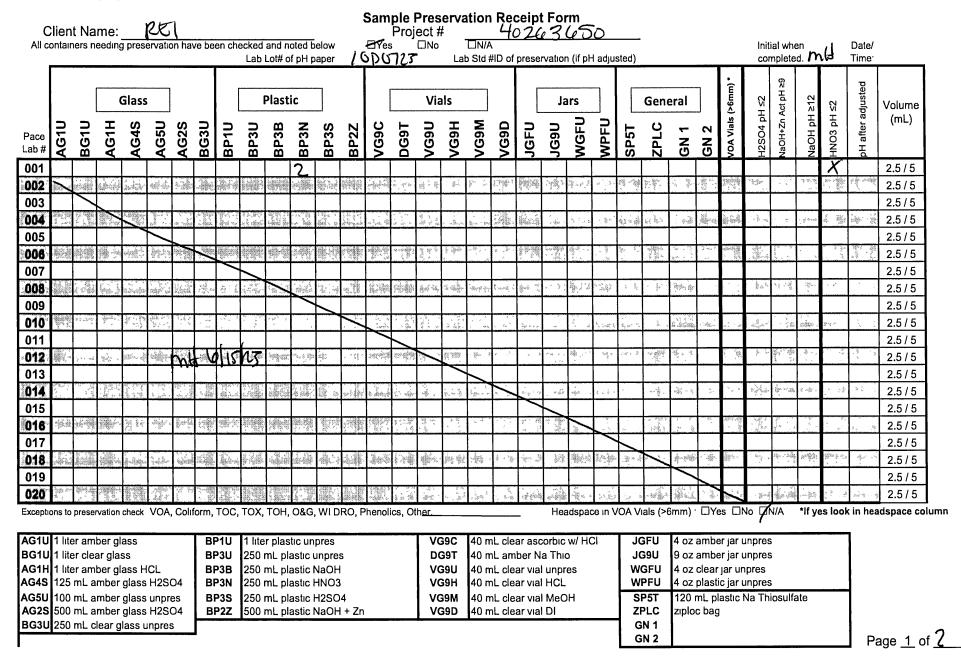
Pace Project No.: 40263650

Date: 06/23/2023 01:12 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40263650001	MW-5	EPA 6010D	447948		

6	CHAIN-OF-CUSTODY Analytical Request Document							LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or														
Pace Analytical*			is a LEGAL	-	•				MTJL Log-in Number Here 40263650													
Company:	)	n-custouy	Billing Info		i - Complet	le all releve	int neius		ALL SHADED AREAS are for LAB USE ONLY									,				
ilel Enhacky	an		4	CL					<u> </u>	Container Preservative Type **								Lab Project Manager:				
	An Wa	احيرار	<u>/</u>	STAE														•	•			
Report To:	r4c	•	Email To:		•															kide, (5) zinc a mmonium sulf		
Copy To: Chare kn	est		Site Collec	tion Inf <i>d//</i>	Address:				(C) a	mmon	um hydrox			Jnpreser	ved, (	O) Other		I ala Dasfil	- // /			
Customer Project Name/Number:	1	<u></u>	State:	State: County/City: Time Zone Collected: / [ ] PT [ ] MT [ ] CT [ ] ET				Analyses Lab Profile/Line:  Lab Sample Receipt Chec														
Phone: 715 675 9787	Site/Facility ID	#:	<u> </u>		Complian	ce Monitori	ing?		3							16				resent/Int res: Preser		
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Effective Date: 8/16/2022



DC#\_Title: ENV-FRM-GBAY-0014 v03\_SCUR

Effective Date: 8/17/2022

# Sample Condition Upon Receipt Form (SCUR)

	Project #:
Client Name: RE\	WO#: 40263650
Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐	Valtco
Client Pace Other:	
Tracking #: 35916925	40263650
Custody Seal on Cooler/Box Present:  yes no Seals intact	
•	∷ ☐ yes ☐ no
Packing Material: Bubble Wrap Bubble Bags Non	
Thermometer Used SR - 120 Type of Ice: Web	Blue Dry None Meltwater Only Person examining contents:
Cooler Temperature Uncorr. 4-0 /Corr. 4-0	
Tomp Blank 1 Tooding 22 you 12 110	Tissue is Frozen:  yes no Date: Oli Th3 /Initials: MH
Temp should be above freezing to 6°C.  Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.	Labeled By Initials:
Chain of Custody Present: ☐₩es ☐No ☐N/A	1.
Chain of Custody Filled Out:   ✓ 7es □No □N/A	2.
Chain of Custody Relinquished: ∠∀es □No □N/A	3.
Sampler Name & Signature on COC: ∠Yes □No □N/A	4.
Samples Arrived within Hold Time:   ☐ Yes ☐ No	5.
- DI VOA Samples frozen upon receipt □Yes □No	Date/Time:
Short Hold Time Analysis (<72hr): □Yes ♠No	6.
Rush Turn Around Time Requested: □Yes ⊡No	7.
Sufficient Volume:	8.
For Analysis; ☐Yes ☐No MS/MSD: ☐Yes ☐No ☐N/A	
Correct Containers Used: ☐No	9.
Correct Type: Pace Green Bay, Pace IR, Non-Pace	
Containers Intact: ☐No	10.
Filtered volume received for Dissolved tests	11
Sample Labels match COC:   ☐Yes □No □N/A	12.
-Includes date/time/ID/Analysis Matrix:	
Trip Blank Present: □Yes □No ☑N/A	. 13.
Trip Blank Custody Seals Present □Yes □No 🔎N/A	
Pace Trip Blank Lot # (if purchased):	
Client Notification/ Resolution:	If checked, see attached form for additional comments
Person Contacted: Date/ Comments/ Resolution:	/Time:
PM Review is documented electronically in LIMs. By releasing the	project, the PM acknowledges they have reviewed the sample login
	Page <u>2</u> of <u>2</u>