



3M Midway

Ceradyne, Inc. a 3M Company
510 Midway Circle
Midway, TN 37809
423 422 6051

1/30/2017

Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

Reference: Ceradyne, Inc. Annual Storm Water Monitoring Report
TNR053148

To whom it may concern:

This letter is to satisfy our annual storm water requirements for the year of 2016.

Enclosed are the storm water monitoring reports, chain of custody and the laboratory analytical results to show compliance.

If you have any questions or concerns, please contact myself at (423) 422-2000.

Respectfully,

Mark Strong
EHS Engineer

"I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this document and all attachments are true, accurate, and complete."

Mr. Michael Wilds, Plant Manager
Ceradyne, Inc. A 3M Company

1/30/17
Date



DEPARTMENT OF ENVIRONMENT AND CONSERVATION

DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower
 312 Rosa L. Parks Avenue, 11th Floor
 Nashville, Tennessee 37243-1102
 (615) 532-0625

ANNUAL STORMWATER MONITORING REPORT
 for Stormwater Discharges Associated with Industrial Activity under the
 TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

Facility Name:	<i>Ceradyne, Inc.</i>	TMSP Number:	
Contact Person:	<i>Mark Strong</i>	Phone Number:	<i>423 422-6051</i>
This report is submitted for the following calendar year (e.g. 2015):	<i>2016</i>	Outfall Number:	<i>01</i>
List all TMSP sectors which apply to discharge from this outfall:		Sample Date:	<i>11/29/16</i>
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

DIRECTIONS:

In the spaces below, provide the results of stormwater monitoring for the designated outfall. For each outfall, one Annual Stormwater Monitoring Report must be submitted. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the TMSP and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be grab.

Parameter	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Cut-off Conc. (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	<i>1.69</i>	Magnesium, Total	0.0636	
Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	<i>0.966</i>	Total Suspended Solids	150	<i>14.2</i>
Lead, Total	0.15		Zinc, Total	0.395	



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ANNUAL STORMWATER MONITORING REPORT
for Stormwater Discharges Associated with Industrial Activity under the
TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP)

CERTIFICATION AND SIGNATURE

(Make all entries in ink, not with a pencil. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.)

I certify under penalty of law that this document and all of its attachments were prepared under my direction or my supervision in accordance with a system designed to assure qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Mike Wilds

Printed Name

Plant Manager

Official Title

Mike Wilds

Signature

1/30/17

Date



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Contact Person:	<i>Mark Strong</i>	Phone Number:	<i>423 422-6051</i>
This report is submitted for the following calendar year (e.g. 2015):	<i>2016</i>	Outfall Number:	<i>02</i>
List all TMSP sectors which apply to discharge from this outfall:		Sample Date:	<i>11/29/16</i>
Low Concentration Waiver (Note 3): list all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived:			

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Ammonia	4.0		Mercury, Total	0.0024	
Arsenic, Total	0.1685		Nickel, Total	0.875	
BOD, 5-Day	30		Nitrate + Nitrite Nitrogen	0.68	
Cadmium, Total	0.0159		Oil and Grease	15	
COD	120		pH	5.0-9.0	
Copper, Total	0.018		Phosphorus, Total (as P)	2.0	
Cyanide, Total	0.064		Selenium, Total	0.2385	
Fluoride	1.8		Silver, Total	0.032	
Iron, Total	5.0	<i>0.433</i>	Total Suspended Solids	150	<i>10.4</i>
Lead, Total	0.15		Zinc, Total	0.395	



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<u>Mike Wilds</u>	<u>Plant Manager</u>	<u></u>	<u>1/30/17</u>
Printed Name	Official Title	Signature	Date



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Mike Wilds

Printed Name

Plant Manager

Official Title

Mike Wilds

Signature

1/30/17

Date

CERADYNE, INC. - A 3M Company

Sample Delivery Group: L875585
Samples Received: 12/01/2016
Project Number: ANNUAL SW
Description: Annual Stormwater

Report To: Mark Strong
510 Midway Circle
Midway, TN 37809

Entire Report Reviewed By:



Linda Cashman
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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ONE LAB, NATIONWIDE.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

SW-01 L875585-01 WW

Collected by: Mark Strong
 Collected date/time: 11/29/16 08:00
 Received date/time: 12/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 D-2011	WG931228	1	12/02/16 12:52	12/02/16 13:33	MMF
Metals (ICP) by Method 200.7	WG931291	1	12/01/16 18:12	12/02/16 01:43	CCE

1
Cp

2
Tc

3
Ss

SW-02 L875585-02 WW

Collected by: Mark Strong
 Collected date/time: 11/29/16 08:10
 Received date/time: 12/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 D-2011	WG931228	1	12/02/16 12:52	12/02/16 13:33	MMF
Metals (ICP) by Method 200.7	WG931291	1	12/01/16 18:12	12/02/16 01:46	CCE

4
Cn

5
Sr

6
Qc

SW-03 L875585-03 WW

Collected by: Mark Strong
 Collected date/time: 11/29/16 08:20
 Received date/time: 12/01/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 D-2011	WG931228	1	12/02/16 12:52	12/02/16 13:33	MMF
Metals (ICP) by Method 200.7	WG931291	1	12/01/16 18:12	12/02/16 01:49	CCE

7
Gl

8
Al

9
Sc

CASE NARRATIVE

ONE LAB. NATIONWIDE.



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Linda Cashman
Technical Service Representative

¹ Cp

² Tc

³ Ss

Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

SW-01

Collected date/time: 11/29/16 08:00

SAMPLE RESULTS - 01

L875585

ONE LAB. NATIONWIDE.



Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	14.2		2.50	1	12/02/2016 13:33	WG931228

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	1.69		0.200	1	12/02/2016 01:43	WG931291
Iron	0.966		0.100	1	12/02/2016 01:43	WG931291

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gt
- 8 Al
- 9 Sc

SW-02

Collected date/time: 11/29/16 08:10

SAMPLE RESULTS - 02

L875585

ONE LAB. NATIONWIDE.



Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	10.4		2.50	1	12/02/2016 13:33	WG931278

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	0.550		0.200	1	12/02/2016 01:46	WG931291
Iron	0.433		0.100	1	12/02/2016 01:46	WG931291

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

SW-03

Collected date/time: 11/29/16 08:20

SAMPLE RESULTS - 03

L875585

ONE LAB. NATIONWIDE.



Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	9.41		2.50	1	12/02/2016 13:33	WG931228

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Aluminum	0.716		0.200	1	12/02/2016 01:49	WG931291
Iron	0.498		0.100	1	12/02/2016 01:49	WG931291

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

WG931228

Gravimetric Analysis by Method 2540 D-2011

QUALITY CONTROL SUMMARY

L875585-01.02.C3

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3182355-1 12/02/16 13:33

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	U		0.350	2.50

L875318-01 Original Sample (OS) • Duplicate (DUP)

(OS) L875318-01 12/02/16 13:33 - (DUP) R3182355-4 12/02/16 13:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	220	224	1	1.80		5

L875574-01 Original Sample (OS) • Duplicate (DUP)

(OS) L875574-01 12/02/16 13:33 - (DUP) R3182355-5 12/02/16 13:33

Analyte	Original Result mg/l	DUP Result mg/l	Dilution %	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	16.0	16.0	1	0.000		5

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3182355-2 12/02/16 13:33 - (LCSD) R3182355-3 12/02/16 13:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Suspended Solids	773	792	788	102	102	85.0-115		0.506	5	5

ACCOUNT:
CERADYNE, INC. - A 3M Company

PROJECT:
ANNUAL SW

SDG:
L875585

DATE/TIME:
12.06/16 14:26

PAGE:
8 of 13



WG931291

Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

L875553-01.02.03

ONE LAB, NATIONWIDE

Method Blank (MB)

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	0.0332	J	0.0273	0.200
Iron	U		0.0282	0.100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3181972-2 12/02/16 00:33 • (LCSD) R3181972-3 12/02/16 00:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	10.8	10.6	108	106	85-115			2	20
Iron	10.0	10.6	10.4	106	104	85-115			2	20

L875539-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L875539-01 12/02/16 00:39 • (MS) R3181972-5 12/02/16 00:44 • (MSD) R3181972-6 12/02/16 00:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	10.6	10.5	105	105	1	70-130			0	20
Iron	10.0	0.105	10.4	10.3	103	102	1	70-130			1	20

L875553-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L875553-01 12/02/16 00:49 • (MS) R3181972-7 12/02/16 00:52 • (MSD) R3181972-8 12/02/16 00:54

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	10.4	10.6	104	106	1	70-130			2	20
Iron	10.0	ND	10.2	10.3	102	103	1	70-130			1	20

1	Cd
2	Tc
3	Ss
4	Cn
5	Sr
6	Cg
7	Gl
8	Al
9	Sc

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

GI

⁸ AI

⁹ Sc

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey-NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio-VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

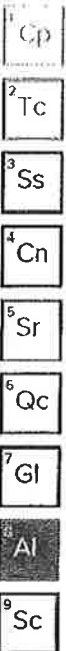
Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA	100789
A2LA - ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ¹⁴ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



CERADYNE, INC. - A 3M Company

510 Midway Circle
Midway, TN 37809

Report to:
Mark Strong

Project
Annual Storm Water

Description:
Annual Storm Water

Phone: 423-422-2000

Client Project #
ANNUAL SW

Site/Facility ID #

Collected by (print):
Mark Strong

Collected by (signature):
Mark Strong

Immediate
Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day
 Next Day
 Two Day
 Three Day

Date Results Needed

Email? No Yes
 FAX? No Yes

City/State Collected:
Midway TN

Lab Project #

P.O. #

Matrix*
WW

Depth
Grab

Comp/Grab
Grab

Sample ID
SW-01

Date
11/29/16

Time
0800

Qty
2

Matrix*
WW

Depth
↓

Comp/Grab
↓

Sample ID
SW-02

Date
↓

Time
0810

Qty
2

Matrix*
WW

Depth
↓

Comp/Grab
↓

Sample ID
SW-03

Date
↓

Time
0820

Qty
2

Matrix*
WW

Depth
↓

Comp/Grab
↓

Sample ID
SW-04

Date
↓

Time
0830

Qty
2

Analysis / Container / Preservative

Analysis	Container	Preservative	Hold #
Metals (Al, Fe) 500mHDPE HN03			
TSS 1L-HDPE N0Ptes			

Chain of Custody Page ___ of ___
ESC
 L.A. ▣ B.C. ▣ S.N. ▣ C.E. ▣ S.
 YOUR LAB OF CHOICE
 32005 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-794-6650
 Phone: 601-767-0451
 Fax: 615-794-6651

LI 185585
 C090

Account: MINGOWTN
 Template: T70754
 Preprint: P545392
 TSR: 850 - Linda Calkman
 PO: 3-31-16
 Shipped via: FedEx Ground
 Rem/Contaminant: Sample # (lab only)

Billing Information:

Accounts Payable
 510 Midway Circle
 Midway, TN 37809

Email To: dstrong@mmm.com

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

Reinquisitioned by: (Signature)
Mark Strong
 Date: 11/29/16
 Time: 1100

Received by: (Signature)
ASB
 Date: 11/29/16
 Time: 1100

Received by: (Signature)
ASB
 Date: 11/29/16
 Time: 1100

Received by: (Signature)
ASB
 Date: 11/29/16
 Time: 1100

Condition: (lab use only) OK
 GOC Seal Intact:
 PH Checked:

PH _____ Temp _____

Flow _____ Other _____

Samples returned via: UPS FedEx Courier Other

Temp: 81.9 °C Bottles Filled: 6

Date: 11-29-16 Time: 0100



LAB SCIENCES

NO. 1 LAB OFFICE

Cooler Receipt Form

Client: <u>MENCOMTN</u>	SDG# <u>6875585</u>
Cooler Received/Opened On: <u>12/1/16</u>	Temperature Upon Receipt: <u>7.1 °C</u>
Received By: <u>Joseph Roberts</u>	
Signature: <u><i>Joseph R.</i></u>	
Receipt Check List	
Were custody seals on outside of cooler and intact?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Were custody papers properly filled out?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Did all bottles arrive in good condition?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Were correct bottles used for the analyses requested?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Was sufficient amount of sample sent in each bottle?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
If applicable, was an observable VOA headspace present?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>
Non Conformance Generated. (If yes see attached NCF)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>

