February 24, 2025

Mrs. Sarah Foreman, PE
Environmental Protection Specialist
Colorado Department of Public Health and the Environment
Solid Waste and Materials Management Program
4300 Cherry Creek Drive South, B-2, Denver, CO 80246
sarah.foreman@state.co.us

RE: 2024 Second Semi-Annual Leachate Management Report

Ms. Foreman:

Attached you will find Twin Landfill's 2024 Second Semi-Annual Leachate Management Report for our facility in Milner, CO. The purpose of this report is to satisfy the requirements of Milner Landfill's Engineering Design and Operations Plan (EDOP), Appendix G Leachate Management Plan, Section 6.0 Semi-Annual Leachate Management Reporting. Should you have any questions about this report, please do not hesitate to contact me.

Sincerely,

Lacie Coupe, General Manager
Twin Landfill

CC: Alan Goldich, Routt County Planning Department
Scott Cowman, Routt County Environmental Health Director
Rebecca Lindeman, PE, Jardon E&I

Mailing Address ● PO BOX 775810 ● Steamboat Springs, CO ● 80477
Milner Landfill ● 20650 RCR 205 ● Steamboat Springs, CO ● 80487
Voice 970-879-6985 ● www.twinenviro.com ● milner@twinenviro.com

Milner Landfill – 2024 Second Semi-Annual Leachate Management Report

This report covers leachate management activities between July 1, 2024, and December 31, 2024. The following topics are covered in this report per Milner Landfill's EDOP, Appendix G Leachate Management Plan, Section 6.0 Semi-Annual Leachate Management Reporting.

Section 1. Leachate sources
Section 2. Leachate volumes
Section 3. Methods of disposal
Section 4. Locations of leachate management/disposal activities
Section 5. Inspection results, including copies of all inspection forms
Section 6. Weekly leachate tank and leachate pond freeboard measurements, including copies of all inspection forms
Section 7. Leachate seeps, spills, leaks, or other unusual incidents
Section 8. Changes to chemical makeup of the leachate that would affect disposal activities
Section 9. Results of laboratory analysis from leachate sampling
Section 10. Module 1 LCRS sump weekly leachate level measurements
Section 11. Summary of all deficiencies and their resolutions (e.g., leachate seeps, spills, freeboard exceedance, etc.)

Section 1. Leachate sources

Leachate water is collected from four sources at Milner Landfill. The Module 1 sump collects leachate from the Phase 1 area of Milner Landfill. The Pit 5&6 leachate collection and removal system (LCRS) tank collects leachate water from the unlined area of Milner Landfill's Pits 5 and 6. The compost pond collects runoff from the compost pad, where composting of biosolids occurs. The liquid waste transfer unit containment (basin) sump only collects stormwater that falls within the containment boundary. Milner Landfill's Leachate Holding Pond (LHP) was placed into service on September 28, 2020, and is a temporary holding and evaporation pond for the four leachate sources.

Section 2. Leachate volumes

A total of 182,500 gallons of leachate water was removed from the Mod 1 sump and was transported directly to the Steamboat Springs Wastewater Treatment Plant (WWTP) for disposal.

No leachate water was removed from the LHP during this reporting period.

A total of 16,500 gallons of leachate water was removed from the Pit 5&6 LCRS tank during this reporting period and transported to the WWTP for disposal.

No runoff water was removed from the compost pond during this reporting period.

A total of 1,000 gallons of leachate water was removed from the basin and transported directly to the WWTP for disposal.

A total of 200,000 gallons of leachate water was managed by Milner Landfill personnel during the second half of 2024. Leachate water collection logs and discharge logs are shown in Appendix A.

Section 3. Methods of disposal

Milner Landfill's primary method for leachate disposal is at the Steamboat Springs wastewater treatment plant.

Section 4. Locations of leachate management/disposal activities

Milner Landfill – Leachate Holding Pond
20650 County Road 205
Steamboat Springs, CO 80487

Steamboat Springs Wastewater Treatment Plant
39565 County Road 33
Steamboat Springs, CO 80487

Section 5. Inspection results

Monthly leachate collection system inspection forms are included in Appendix B.

Section 6. Leachate tank freeboard measurements and leachate pond freeboard measurements

The LHP was in service during the reporting period, but only acts as temporary leachate water storage prior to transportation to the WWTP. Leachate pond level logs are included in Appendix F.

Section 7. Leachate seeps, spills, leaks, or other unusual incidents

None of these items were identified during inspections, as recorded on the monthly forms, found in Appendix B.

Section 8. Changes to chemical makeup of leachate that would affect disposal activities

There were no known changes to the chemical makeup of leachate that would affect disposal activities during the reporting period. The WWTP has not issued any influent limits at this time.

Section 9. Results of laboratory analysis from leachate sampling

The Mod 1 leachate sump and Tank 5/6 were sampled in October 2024. The laboratory reports are found in Appendix D of this report.

Section 10. Module 1 LCRS sump weekly leachate level measurements

Weekly Module 1 Leachate Sump Inspection Forms can be found in Appendix E of this report.

Section 11. Summary of all deficiencies and their resolutions

No deficiencies were noted during the reporting period.

Appendix A

Leachate Collection and Discharge Logs

Discharge Logs Key:

Mod 1 Sump
Basin
Tank 5/6

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1368

TIME PERIOD: _____ CUSTOMER #: _____

BUSINESS NAME: TWPJ Enviro

ADDRESS: _____ TRUCK CAPACITY: _____

TOTAL GALLONS DISCHARGED: 8575

DRIVERS NAME: _____ PHONE: _____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	600	7-2	PM	
TWPJ	700	7/3	1100	
TWPJ	200	7.4	6.00	
TWPJ	1075	7-4	6:15	
Model [redacted]	6000	7-1	AM	
TWPJ	550	7-8	AM	
TWPJ	200	7.8	8:00	
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1371

TIME PERIOD: 7/2024 CUSTOMER #:

BUSINESS NAME: Twin Enviro

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED: 17,900

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TwPJ	300	7-9	7:30	M. Sc
TwPJ	600	7-9	AM	MB
Mod 1 [redacted]	6000	7-5	AM	Lynn
Mod 1 [redacted]	6000	7-8	Am	Lynn
5/6 [redacted]	3000	7-8	Am	Lynn
TWPJ	650	7/10	AM	Ky
TWPJ	550	7/11	AM	RW
TWPJ	400	7-11	PM	MB
TWPJ	700	7-11	PM	RW
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1386

BUSINESS NAME: Twin enviro TIME PERIOD: _____ CUSTOMER #: _____

ADDRESS: _____ TRUCK CAPACITY: _____

_____ TOTAL GALLONS DISCHARGED: 13,850

DRIVERS NAME: _____ PHONE: _____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TwpJ	300	7.19	1:40	M.
TWPJ	650	7/22	11:09	KW
TWPJ	300	7.23	2:45	M.
TWPJ	500	7-25	AM	MB
TwPJ	700	7.26	2:40	M.
TWPJ	400	7/26	0805	KW
mod 1 [redacted]	5000	7-22	Pm	Lynn
5/6 [redacted]	1000	7-22	Am	Lynn
mod 1 [redacted]	5000	7-26	Am	Lynn
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1388

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED: 11,230

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	500	7-26	PM	MB
TWPJ	500	7/29	AM	KW
TWPJ	750	7/29	PM	MB
mod 1 [redacted]	2000	7-29	Am	Lynn
TwpJ	200	7.31	7:30	
TwpJ	180	8.1	7:30	
TwPJ	400	8.1	7:30	
TWPJ	500	8.1	2:49 PM	
Twp J	200	8.2	9:10	
PLANT OPERATORS NAME: mod 1 [redacted]	6000	COMMENTS: 8-2	Am	Lynn

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1406

BUSINESS NAME: Twin Info TIME PERIOD: CUSTOMER #:

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED: 15,550

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	600	8/12	1:30 PM	CL
TWPJ	600	8/13	7:30AM	
Mad I [redacted]	6000	8/9	AM	Lynn
Mad I [redacted]	5500	8/12	AM	Lynn
TWPJ	350	8/14	A.M	RW
TWPJ	600	8/14	1:10PM	CL
TWPJ	250	8/14	3:30	Dust DW
TWPJ	750	8/15	AM	
TWPJ	1100	8/15	1:15	DW
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1408

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

TOTAL GALLONS DISCHARGED: 17,680

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
Mod 1 [redacted]	3000	8-16	Am	16,000
Mod 1 [redacted]	6000	8-19	Am	
5/6 [redacted]	9000	8-19	pm	
TWPT	400	8-20	AM	
TWPT	175	8-21	AM	
TWPT	500	8-21	PM	
TWPT	250	8-21	4:10pm	
TWPT	150	8-22	AM	
TWPT	175	8-22	PM	
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1414

TIME PERIOD: _____ CUSTOMER #: _____

BUSINESS NAME: Hubb Springs

ADDRESS: _____ TRUCK CAPACITY: _____

TOTAL GALLONS DISCHARGED: 6,500

DRIVERS NAME: _____ PHONE: _____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPT	250	8-30	2:00 PM	[redacted]
TWPT	350	8-30	AM	RW
TWPT	150	8-30	11:10 A.M	CLC
Mod 1 [redacted]	6000	8-30	AM	Lynn
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1411

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin enviro

ADDRESS:_____ TRUCK CAPACITY:_____

TOTAL GALLONS DISCHARGED: 11,460

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	250	8-23	1:40 Pm	DLH
TWPJ	450	8/26	0820	KW
TWPJ	250	8/26	1:15	DLH
TWPJ	400	8/28	11:20	CLC
[redacted]	5000	8/27	PM	LYNN
[redacted]	4000	8/27	PM	LYNN
TWPJ	250	8/27	12:43 PM	DLH
TWPJ	450	8/28	0905	KW
TWPJ	350	8-01	AM	DLH
PLANT OPERATORS NAME:		COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1416

TIME PERIOD: 9/24 CUSTOMER #:

BUSINESS NAME: Twin Eagles

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
[redacted]	6225	9-3	7:30	[illegible]
TWPS	250	9-1	5:00 PM	DM
TWPS	250	9-4	2:20PM	DM
TWPS	350	9-5	PM	DM
TWPS	250	9-5	3:08 PM	DM
TWPS	400	9-6	AM	DM
TWPS	1000	9/6	0818	DM
TWPS	400	9-6	8:35 AM	DM
PLANT OPERATORS NAME:	7,900	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1440

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPS	200	9/27	2:15 PM	DM
TWPJ	350	9/30	0840	KW
mod 1 [redacted]	3000	9/30	10:00	Lynn
TWPS	250	9/30	2:15 PM	DM
TWPS	200	10/1	10:15 AM	DM
TWPJ	350	10-2	AM	CW
TWPJ	400	10/3	0911	KW
mod 1 [redacted]	4500	10/4	10:30	Lynn
TWPS	400	10/4	1:45 PM	DM
PLANT OPERATORS NAME:	9,650	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1428

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION

NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPS	200	9/6	3:00 pm	[illegible]
TWPS	200	9/9	12:50 pm	[illegible]
Mad [redacted]	4000	9/9	8:30	Lynn
5/6 [redacted]	2000	9/9	10:30	Lynn
TWPS	225	9-10	8:15	[illegible]
TWPS	200	9-10	2:10 pm	[illegible]
TWPS	500	9/11	0924	[illegible]
TWPS	250	9/11	3:55 pm	[illegible]
TWPS	200	9/12	2:00 pm	[illegible]
PLANT OPERATORS NAME:	7,775	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1429

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Eakins

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	225	9-13	AM	RW
TWPJ	100	9-13	11:00AM	CLC
TWPJ	300	9-13	12:30PM	CLC
TWPJ	300	9-13	1:25	CLC
TWPJ	600	9/16	0733	KW
TWPJ	275	9/16	1PM	RW
TWPJ	500	9/17	@7:30AM	DW
Mod L [redacted]	6000	9/16	11 AM	4000
TWPJ	500	9/18	0940	KW
PLANT OPERATORS NAME:	8,800	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1431

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION

NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	250	9/18	3:00pm	DM
TWPJ	350	9-19	AM	CW
TWPJ	250	9-20	800 AM	DM
TWPJ	400	9-20	AM	CW
TWPJ	300	9/20	0906	KW
Mad I [redacted]	6000	9/20	1100	LYNN
TWPJ	250	9/20	1:20 PM	DM
TWPJ	300	9/23	0819	KW
TWPJ	500	9/24	0732	KW
PLANT OPERATORS NAME:	8,600	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1435

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: TWIN FAVIRO

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	275	9-22	AM	RW
mod [redacted]	4500	9-23	Am	Lynn
TWPJ	150	9-24	11:05AM	CLC
TWPJ	250	9-25	AM	RW
TWPJ	260	9-25	2:48 PM	DM
TWPJ	350	9/26	1015 AM	RW
TWPJ	150	9/26	10:07AM	CLC
TWPJ	450	9-26	PM	RW
TWPJ	260	9-26	1:58PM	DM
PLANT OPERATORS NAME:	6,635	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1446

BUSINESS NAME: Twin Enviro TIME PERIOD: 10/2024 CUSTOMER #:

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
mod 1 [redacted]	4500	10-8	1000	Lynn
TWPJ	500	10-9	2:55 pm	DW
TWPJ	250	10-10	2:30 pm	DW
TWPJ	350	10/11	0734	KW
mod 1 [redacted]	2500	10/11	1230	LP
TWPJ	300	10/11	1:00pm	CL-C
TWPJ	250	10/11	2:00 PM	DW
TWPJ	425	10/11	PM	RW
TWPJ	800	10/13	AM	RW
PLANT OPERATORS NAME:	9,375	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1461

TIME PERIOD: _____ CUSTOMER #: _____

BUSINESS NAME: Twin Enviro

ADDRESS: _____ TRUCK CAPACITY: _____

TOTAL GALLONS DISCHARGED: _____

DRIVERS NAME: _____ PHONE: _____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	600	10-14	9:00 Am	DM
TWPJ	500	10/15	0745	KW
Mod 1 [redacted]	3000	10-14	Am	Lynn
TWPJ	260	10-15	11:40 Am	DM
TWPJ	375	10-16	Am	KW
TWPJ	150	10-16	12:15pm	DM
TWPJ	600	10-17	Pm	KW
TWPJ	450	10/18	0747	KW
TWPJ	300	10/18	12:30 pm	DM
PLANT OPERATORS NAME:	6,135	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1463

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
mod 1 [redacted]	~~3000~~	10-18	1400	Lynn
Twin PJ	250	10-21	11:32	Gregson
mod 1 [redacted]	7000	10-21	14:10	Lynn
TWPJ	300	10-22	10:15Am	CLL
TWPJ	300	10-22	11:15Am	CLL
TWPJ	300	~~12:55pm~~	10-22 2:05pm	CLL
TWPJ	250	10-22	12:28 Pm	Gregson
TWPJ	300	10-22	1:30 Pm	CLL
TWPJ	450	10/23	12:25	KW
PLANT OPERATORS NAME:	9,150	COMMENTS:		

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1465

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

TIME PERIOD: 10-24 CUSTOMER #:

BUSINESS NAME: Twin enviro

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	250	10-23-24	2:10	Gregory
TWPJ	300	10-24	8:05Am	CL
TWPJ	800	10-24	Am	RW
TWPJ	350	10-25	2:15	Gregory
TWPJ	500	10/28	0800	K
TWPJ	250	10/28	12:44	GD
TWPJ	100	10/28	PM	RW
~~TWPJ~~ mad / [redacted]	3500	10/28	PM	Gregory
TWPJ	125	10/29	AM	RW
PLANT OPERATORS NAME:	6,1[illegible]	COMMENTS:		

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(6,175)

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1474

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: TWPS

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION

NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPS	600	11/8	3:20 pm	DM
Mad L	3000	11-8	3:45	Emp
TWPS	500	11/12	0910	KW
PLANT OPERATORS NAME:	4,100	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1471

TIME PERIOD:_____ CUSTOMER #:_____

BUSINESS NAME: Twin Enviro

ADDRESS:_____ TRUCK CAPACITY:_____

_____ TOTAL GALLONS DISCHARGED:_____

DRIVERS NAME:_____ PHONE:_____

INDIVIDUAL LOAD INFORMATION

NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	250	11-4-24	2:17	GD
Mod 1 [redacted]	7500	11-5-24	12:15	[illegible]
TWPJ	250	11-5-24	12:20	GD
TWPJ	150	11/5	2:47	[illegible]
TWPJ	300	11/7	0735	[illegible]
TWPS	400	11/7	8:20	[illegible]
TWPJ	400	11/7	2:37	GD
TWPO	300	11/8	8:45	GD
TWPJ	250	11/8	2:10	GD
PLANT OPERATORS NAME:	9,800	COMMENTS:		

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SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1482

TIME PERIOD: 11/2024 CUSTOMER #:

BUSINESS NAME: Twin Enviro P J

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPT	450	11-12	11:45	GD
TWPS	500	11-13	1:25 pm	Dm
TWPT	250	11-13	1:30 pm	GD
TWPT	250	11-14	1:10 pm	GD
TWPS	250	11-14	2:15pm	Dm
TWPT	200	11-15	1:37 pm	GD
TWPS	200	11-15	2:05 pm	Dm
mod 1 [redacted]	3500	11-15	9 AM	LP
mod 1	2000	11-18	9:45	LP
PLANT OPERATORS NAME:	7,600	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1483

TIME PERIOD: 11/2024 CUSTOMER #:

BUSINESS NAME: Twin Enviro

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPT	300	12-10	3:05 pm	GD
TWPT	200	12-11	1:35 pm	GD
mod 1 [redacted]	3500	12-13	10:50	Lynn
mod 1	3000	12-16	12:30	Lynn
TWPT	450	12-16	2:35 pm	GD
TWPT	500	12-16	3:05 pm	DM
TWPT	150	12-17	1:15 pm	DMC
TWPT	250	12-17	1:30 pm	Gage
TWPT	350	12/19	0840	KW
PLANT OPERATORS NAME:	8,700	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1491

BUSINESS NAME: Twin Enviro TIME PERIOD: 11/24 CUSTOMER #:

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPJ	600	11/22	1115	RW
TWPJ	260	11-22	12:35 pm	GD
PJTW	400	11-22	12:50 pm	CLL
Mod 1 [redacted]	3000	11-25	9:30 Am	Lynn
TWPJ	350	11-26	2:20 Pm	GD
TWPJ	250	11-26	11:20 AM	GD
TWPJ	400	11/27	0815	RW
TWPJ	350	12/2	0913	RW
Mod 1 [redacted]	4000	11/27	Am	Lynn
PLANT OPERATORS NAME:	9,600	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

TIME PERIOD: CUSTOMER #:

BUSINESS NAME: Twin Enviro

ADDRESS:

TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME:

PHONE:

INDIVIDUAL LOAD INFORMATION

NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
mod 1 [redacted]	2000	12-2	1000	Lynn
TWPP	300	12-2	11:50 AM	GagePu
TWPP	500	12-2	1:40 pm	GP
TWPP	150	12-3	12: 65 pm	GP

PLANT OPERATORS NAME: (2,950) COMMENTS:

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1495

TIME PERIOD: 12/24 CUSTOMER #:

BUSINESS NAME: Twin Enviro

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPT	350	12-6	8:03 AM	CD
mod / [redacted]	3300	12-6	9:13	[redacted]
TWPT	250	12-6	2:55 PM	DM
TWPT	100	12-7	2:55pm	CLL
TWPT	400	12-9	11:30 AM	CLL
[redacted] Basin	1000	12-9	9:00	[redacted]
TWPT	750	12-9	12:15 PM	GWH
TWPT	1000	12-9	1:30 PM	CD
TWPT	250	12-9	3:00 PM	DM
PLANT OPERATORS NAME:	7,610	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1503

BUSINESS NAME: TWPS enviro TIME PERIOD: CUSTOMER #:

ADDRESS: TRUCK CAPACITY:

TOTAL GALLONS DISCHARGED:

DRIVERS NAME: PHONE:

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPS	250	12/19	11:30 AM	DM
TWPS	250	12-19	11:25 AM	GD
medl [redacted]	3000	12-20	Am	Lynn
medl	2000	12-23	9:00	Lynn
TWPS	750	12-23	9:10	GD
TWPS	250	12-23	3:15	DM
TWPS	400	12/24	0902	KW
TWPS	300	12-24	10:50 AM	GD
TWPS	500	12-26	12:35 pm	DM
PLANT OPERATORS NAME:	7,700	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

SEPTIC TANK HAULERS GALLONS DISCHARGED TO STEAMBOAT SPRINGS REGIONAL SEWAGE SYSTEM

1506

BUSINESS NAME: [redacted] Twin Enviro TIME PERIOD: _____ CUSTOMER #: _____

ADDRESS: _____ TRUCK CAPACITY: _____

TOTAL GALLONS DISCHARGED: _____

DRIVERS NAME: _____ PHONE: _____

INDIVIDUAL LOAD INFORMATION				
NAME & ADDRESS OF CUSTOMER	GALLONS	DATE	TIME OF DISCHARGE	DRIVER NAME/INITIALS
TWPS	~~500~~ 150	12-26	1:20pm	GD
TWPS	250	12-27	1:40pm	GD
TWPS	250	12-27	1:42 Pm	DM
TWPS	500	12/30	0802	
TWPS	1000	12-30	11:50 AM	GD
mod 1 [redacted]	3000	12-27	Am	GMD
mod 1	3000	12-30	Am	GMD
TWPS	500	12/31	1124	
~~[redacted]~~	~~[redacted]~~	~~[redacted]~~	~~[redacted]~~	~~[redacted]~~
PLANT OPERATORS NAME:	8,750	COMMENTS:		

1ST COPY - CITY OF STEAMBOAT SPRINGS 2ND COPY - HAULERS COPY

Appendix B

Monthly Leachate Collection System Inspection Form

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: David Keating
DATE COMPLETED: 12/13/24

MILNER LANDFILL

LEACHATE COLLECTION SYSTEM

INSPECTION FORM

	INSPECTION ACTIVITY		
COMPONENT	**DEFICIENCY**	**REPAIR**	**COMMENTS**
SIDE SLOPES	Good	none	
LEACHATE TRENCH DRAIN	Good	none	
LEACHATE HOLDING TANK	Good	none	
MOD. 1 LEACHATE SUMP	Good	none	
LEACHATE HOLDING POND	Good	none	
COMPOST LEACHATE POND	Good	none	

INSPECTORS SIGNATURE [signature] DATE 12/13/24

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: David Keating
DATE COMPLETED: 11/15/24

MILNER LANDFILL

LEACHATE COLLECTION SYSTEM

INSPECTION FORM

	INSPECTION ACTIVITY		
COMPONENT	DEFICIENCY	REPAIR	COMMENTS
SIDE SLOPES	Good	none	
LEACHATE TRENCH DRAIN	Good	none	
LEACHATE HOLDING TANK	Good	none	
MOD. 1 LEACHATE SUMP	Good	none	
LEACHATE HOLDING POND	Good	none	
COMPOST LEACHATE POND	Good	none	

INSPECTORS SIGNATURE DJ [illegible] DATE 11/15/24

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: David Reuters	MILNER LANDFILL LEACHATE COLLECTION SYSTEM INSPECTION FORM
DATE COMPLETED: 10/11/24	

INSPECTION ACTIVITY			
COMPONENT	**DEFICIENCY**	**REPAIR**	**COMMENTS**
SIDE SLOPES	Good	none	
LEACHATE TRENCH DRAIN	Good	none	
LEACHATE HOLDING TANK	Good	none	
MOD. 1 LEACHATE SUMP	Good	none	
LEACHATE HOLDING POND	Good	none	
COMPOST LEACHATE POND	Good	none	

INSPECTORS SIGNATURE [signature] DATE 10/11/24

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: Darby Keating	MILNER LANDFILL
DATE COMPLETED: 9/30/24	LEACHATE COLLECTION SYSTEM
	INSPECTION FORM

INSPECTION ACTIVITY			
COMPONENT	**DEFICIENCY**	**REPAIR**	**COMMENTS**
SIDE SLOPES	None	N/A	
LEACHATE TRENCH DRAIN	None	N/A	
LEACHATE HOLDING TANK	None	N/A	
MOD. 1 LEACHATE SUMP	None	N/A	
LEACHATE HOLDING POND	None	N/A	
COMPOST LEACHATE POND	None	N/A	

INSPECTORS SIGNATURE  DATE 9/30/24

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: DAVID KEATING	MILNER LANDFILL
DATE COMPLETED: 8/21/24 ~~8/21/24~~	LEACHATE COLLECTION SYSTEM
	INSPECTION FORM

	INSPECTION ACTIVITY		
COMPONENT	**DEFICIENCY**	**REPAIR**	**COMMENTS**
SIDE SLOPES	none	N/A	
LEACHATE TRENCH DRAIN	none	N/A	
LEACHATE HOLDING TANK	none	N/A	
MOD. 1 LEACHATE SUMP	none	N/A	
LEACHATE HOLDING POND	none	N/A	
COMPOST LEACHATE POND	none	N/A	

INSPECTORS SIGNATURE [signature] DATE 8/21/24

MONTHLY LEACHATE COLLECTION SYSTEM INSPECTION FORM

INSPECTED BY: Dave Kramb	MILNER LANDFILL LEACHATE COLLECTION SYSTEM INSPECTION FORM
DATE COMPLETED: 7/24/24	

	INSPECTION ACTIVITY		
COMPONENT	DEFICIENCY	REPAIR	COMMENTS
SIDE SLOPES	none	n/a	
LEACHATE TRENCH DRAIN	none	n/a	
LEACHATE HOLDING TANK	none	n/a	
MOD. 1 LEACHATE SUMP	none	n/a	
LEACHATE HOLDING POND	none	n/a	
COMPOST LEACHATE POND	none	n/a	

INSPECTORS SIGNATURE Dave Kramb DATE 7/24/24

Appendix C

Weekly Leachate Tank Inspection Form

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: July

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	**TANK LEVEL[1,2,3] (FT)**	**BERM FREEBOARD (FT)**	**DEFICIENCY**	**REPAIR**	**COMMENTS**
7/1	7'4" 8'1"	2'9"	none	none	
7/8	7'2" 7'8"	3'10"	none	none	
7/15	8'2" 8'6"	3'10"	none	none	
7/22	8'9" 7'8"	3'10"	none	none	
7/29	7'3" 6'6"	3'10"	none	none	

INSPECTORS SIGNATURE [signature] DATE 7/29/24

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: 8/2024

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	TANK LEVEL[1,2,3] (FT)	BERM FREEBOARD (FT)	DEFICIENCY	REPAIR	COMMENTS
8/5/24	8'2" Dry	Dry	none	none	
8/12	6'2" 7'3"	Dry	none	none	
8/19	5'10" 4'3"	3'	none	none	
8/23	7'8" 7'10"	3'4"	none	none	
8/27	5' 7'	3'7"	none	none	

INSPECTORS SIGNATURE [signature] DATE 8/27/24

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: 9/30/24

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	TANK LEVEL[1,2,3] (FT)	BERM FREEBOARD (FT)	DEFICIENCY	REPAIR	COMMENTS
9/3	5' 11" 7' 1"	3' 7"	none	N/A	
9/9	7' 2" 5' 10"	3' 8"	none	N/A	
9/16	7' 4" 7' 1"	DRY	none	N/A	
9/23	6' 10" 6' 8"	DRY	none	N/A	
9/30	7' 8" 7' 1"	DRY	none	N/A	

INSPECTORS SIGNATURE David Keating DATE 9/30/24

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: October 2024

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	TANK LEVEL[1,2,3] (FT)	BERM FREEBOARD (FT)	DEFICIENCY	REPAIR	COMMENTS
10/8	6'11" 6'1"	Dry	none	none	
10/14	7'10" 7'7"	Dry	none	none	
10/18	7'9" 7'4"	3'7"	none	none	
10/24	7'5" 7'	3'5"	none	none	
10/28	7'3" 6'10"	3'5"	none	none	

INSPECTORS SIGNATURE [signature] DATE 10/28/24

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: 11/2024

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	TANK LEVEL[1,2,3] (FT)	BERM FREEBOARD (FT)	DEFICIENCY	REPAIR	COMMENTS
11/1	7'2" 6'9"	3'4"	none	none	
11/8	7'4" 7'6"	3'1"	none	none	
11/15	7'1" 6'11"	2'10"	none	none	
11/22	7' 6'8"	2'9"	none	none	
11/25	Frozen	2'8"	none	none	

INSPECTORS SIGNATURE Dal K DATE 11/25/24

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

WEEKLY LEACHATE TANK INSPECTION FORM

INSPECTED BY: David Keating

DATE COMPLETED: 12/2024

MILNER LANDFILL

LEACHATE TANK INSPECTION FORM

TANK INSPECTION					
DATE	TANK LEVEL[1,2,3] (FT)	BERM FREEBOARD (FT)	DEFICIENCY	REPAIR	COMMENTS
12/6	Frozen	2'6"	none	none	
12/13	Frozen	2'5"	none	none	
12/17	Frozen	2'4"	none	none	
12/20	Frozen	2'6"	none	none	
12/27	Frozen	2'3"	none	none	

INSPECTORS SIGNATURE [signature] DATE 12/27

Notes: 1.) There are two compartments in the tank. Both compartments must be measured at least weekly.
2.) The "Tank Level" represents a freeboard measurement and consists of measuring from the leachate surface to the top of the tank.
3.) Minimum tank freeboard is 2 feet.

Appendix D
Laboratory Analytical Results

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

November 12, 2024

Report to:
David Keating
Twin Landfill Corporation
40650 CO Rd 205
Steamboat Springs, CO 80487

cc: Rebecca Lindeman

Bill to:
Jen Oliver
Twin Landfill Corporation
20650 CR 205
Steamboat Springs, CO 80487

Project ID:
ACZ Project ID: L91136

David Keating:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 24, 2024. This project has been assigned to ACZ's project number, L91136. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L91136. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 12, 2024. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

Twin Landfill Corporation

November 12, 2024

Project ID:
ACZ Project ID: L91136

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 groundwater samples from Twin Landfill Corporation on October 24, 2024. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L91136. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following required further explanation not provided by the Extended Qualifier Report:

1. The below is from WG600586, Qualifier: N1A, Applies to: L91136-01/THALLIUM, L91136-02/LEAD L91136-02/THALLIUM, L91136-02/ZINC - Interference check sample (ICS-AB) had recovery above method limits. Associated samples were non-detect.

2. The below is from WG600586, Qualifier: N1, Applies to: L91136-01 and -02/CADMIUM - Cd detected in interference check sample (ICS-A). Cd present as a trace impurity in vendor-supplied ICS solution. Cd ICS-A values up to 0.00085mg/L are within method limits. Pass data

Twin Landfill Corporation
Project ID:
Sample ID: MOD 1

ACZ Sample ID: ***L91136-01***
Date Sampled: *10/24/24 09:55*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	EPA 200.7/200.8/3005A Filter								10/31/24 17:10	aps
Total Hot Plate Digestion	EPA 3010A								10/31/24 12:45	aps
Total Hot Plate Digestion	EPA 3010A				*				10/28/24 21:02	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total	EPA 6020B	2	<0.0008	U		mg/L	0.0008	0.004	11/04/24 14:05	aps
Arsenic, total	EPA 6020B	5	0.00279	B		mg/L	0.001	0.005	11/06/24 18:43	aps
Barium, total	EPA 6010D	5	0.992			mg/L	0.045	0.175	10/30/24 1:35	msp
Beryllium, total	EPA 6020B	2	<0.0002	U		mg/L	0.0002	0.0005	11/04/24 14:05	aps
Cadmium, total	EPA 6020B	2	<0.0001	U	*	mg/L	0.0001	0.0005	11/04/24 14:05	aps
Calcium, dissolved	EPA 6010D	2	231			mg/L	0.2	1	11/08/24 17:49	msp
Chromium, total	EPA 6020B	2	0.00566			mg/L	0.001	0.004	11/04/24 14:05	aps
Cobalt, total	EPA 6020B	5	0.00425			mg/L	0.00025	0.00125	11/06/24 18:43	aps
Copper, total	EPA 6010D	5	<0.05	U		mg/L	0.05	0.25	10/30/24 1:35	msp
Lead, total	EPA 6020B	5	<0.0005	U		mg/L	0.0005	0.0025	11/06/24 18:43	aps
Magnesium, dissolved	EPA 6010D	2	200			mg/L	0.4	2	11/08/24 17:49	msp
Nickel, total	EPA 6010D	5	0.0410	B		mg/L	0.04	0.2	10/30/24 1:35	msp
Potassium, dissolved	EPA 6010D	2	73.5		*	mg/L	1	2	11/08/24 17:49	msp
Selenium, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.0005	11/04/24 14:05	aps
Silver, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.001	11/04/24 14:05	aps
Sodium, dissolved	EPA 6010D	2	525		*	mg/L	0.4	2	11/08/24 17:49	msp
Thallium, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.001	11/04/24 14:05	aps
Vanadium, total	EPA 6010D	5	<0.05	U		mg/L	0.05	0.125	10/30/24 1:35	msp
Zinc, total	EPA 6020B	5	0.0318	B		mg/L	0.03	0.075	11/06/24 18:43	aps

Twin Landfill Corporation
Project ID:
Sample ID: MOD 1

ACZ Sample ID: ***L91136-01***
Date Sampled: *10/24/24 09:55*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	1520			mg/L	2	20	10/25/24 0:00	asn
Carbonate as CaCO3		1	<2	U		mg/L	2	20	10/25/24 0:00	asn
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/25/24 0:00	asn
Total Alkalinity		1	1520			mg/L	2	20	10/25/24 0:00	asn
Carbon, total organic (TOC)	SM 5310 B-2011/2014	1	114			mg/L	1	5	10/29/24 13:32	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-10.9			%			11/12/24 0:00	calc
Sum of Anions			66			meq/L			11/12/24 0:00	calc
Sum of Cations			53.0			meq/L			11/12/24 0:00	calc
Chloride	SM 4500-Cl E-2011	50	1210			mg/L	50	100	11/05/24 11:49	jqr
Conductivity @25C	SM 2510 B-2011	1	5870			umhos/cm	1	10	10/25/24 21:06	asn
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/24 10:55	cm/bsc
Nitrate as N	Calculation (NO3NO2-NO2)		0.039	B		mg/L	0.02	0.1	11/12/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.039	B	*	mg/L	0.02	0.1	10/25/24 0:11	pjb
Nitrite as N	EPA 353.2	1	<0.01	U	*	mg/L	0.01	0.05	10/25/24 0:11	pjb
pH (lab)	SM 4500-H+ B-2011									
pH		1	7.4	H		units	0.1	0.1	10/25/24 0:00	asn
pH measured at		1	22.2			C	0.1	0.1	10/25/24 0:00	asn
Sulfate	ASTM D516-07/-11/-16	5	59.1		*	mg/L	5	25	11/05/24 14:16	jqr

Twin Landfill Corporation
Project ID:
Sample ID: TANK 5/6

ACZ Sample ID: ***L91136-02***
Date Sampled: *10/24/24 09:30*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	EPA 200.7/200.8/3005A Filter								10/31/24 17:10	aps
Total Hot Plate Digestion	EPA 3010A								10/31/24 12:45	aps
Total Hot Plate Digestion	EPA 3010A				*				10/28/24 21:19	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total	EPA 6020B	2	<0.0008	U		mg/L	0.0008	0.004	11/04/24 14:07	aps
Arsenic, total	EPA 6020B	5	0.00223	B		mg/L	0.001	0.005	11/06/24 18:45	aps
Barium, total	EPA 6010D	5	0.312			mg/L	0.045	0.175	10/30/24 1:38	msp
Beryllium, total	EPA 6020B	2	<0.0002	U		mg/L	0.0002	0.0005	11/04/24 14:07	aps
Cadmium, total	EPA 6020B	2	<0.0001	U	*	mg/L	0.0001	0.0005	11/04/24 14:07	aps
Calcium, dissolved	EPA 6010D	2	183			mg/L	0.2	1	11/08/24 17:53	msp
Chromium, total	EPA 6020B	2	0.00270	B		mg/L	0.001	0.004	11/04/24 14:07	aps
Cobalt, total	EPA 6020B	5	0.00486			mg/L	0.00025	0.00125	11/06/24 18:45	aps
Copper, total	EPA 6010D	5	<0.05	U		mg/L	0.05	0.25	10/30/24 1:38	msp
Lead, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.001	11/04/24 14:07	aps
Magnesium, dissolved	EPA 6010D	2	109			mg/L	0.4	2	11/08/24 17:53	msp
Nickel, total	EPA 6010D	5	<0.04	U		mg/L	0.04	0.2	10/30/24 1:38	msp
Potassium, dissolved	EPA 6010D	2	69.1		*	mg/L	1	2	11/08/24 17:53	msp
Selenium, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.0005	11/04/24 14:07	aps
Silver, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.001	11/04/24 14:07	aps
Sodium, dissolved	EPA 6010D	2	288		*	mg/L	0.4	2	11/08/24 17:53	msp
Thallium, total	EPA 6020B	2	<0.0002	U	*	mg/L	0.0002	0.001	11/04/24 14:07	aps
Vanadium, total	EPA 6010D	5	<0.05	U		mg/L	0.05	0.125	10/30/24 1:38	msp
Zinc, total	EPA 6020B	2	<0.012	U	*	mg/L	0.012	0.03	11/04/24 14:07	aps

Twin Landfill Corporation
Project ID:
Sample ID: TANK 5/6

ACZ Sample ID: ***L91136-02***
Date Sampled: *10/24/24 09:30*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM 2320 B-2011									
Bicarbonate as CaCO3		1	1560			mg/L	2	20	10/25/24 0:00	asn
Carbonate as CaCO3		1	<2	U		mg/L	2	20	10/25/24 0:00	asn
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/25/24 0:00	asn
Total Alkalinity		1	1560			mg/L	2	20	10/25/24 0:00	asn
Carbon, total organic (TOC)	SM 5310 B-2011/2014	1	74.8			mg/L	1	5	10/29/24 13:49	ems
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-10.8			%			11/12/24 0:00	calc
Sum of Anions			41			meq/L			11/12/24 0:00	calc
Sum of Cations			33			meq/L			11/12/24 0:00	calc
Chloride	SM 4500-Cl E-2011	25	347			mg/L	25	50	11/05/24 11:50	jqr
Conductivity @25C	SM 2510 B-2011	1	3640			umhos/cm	1	10	10/25/24 21:16	asn
Lab Filtration (0.45um filter)	SOPWC050	1							11/04/24 10:58	cm/bsc
Nitrate as N	Calculation (NO3NO2-NO2)		0.176			mg/L	0.02	0.1	11/12/24 0:00	calc
Nitrate/Nitrite as N	EPA 353.2	1	0.218		*	mg/L	0.02	0.1	10/25/24 0:12	pjb
Nitrite as N	EPA 353.2	1	0.042	B	*	mg/L	0.01	0.05	10/25/24 0:12	pjb
pH (lab)	SM 4500-H+ B-2011									
pH		1	7.9	H		units	0.1	0.1	10/25/24 0:00	asn
pH measured at		1	22.4			C	0.1	0.1	10/25/24 0:00	asn
Sulfate	ASTM D516-07/-11/-16	1	<1	U	*	mg/L	1	5	11/05/24 14:08	jqr

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600071													
WG600071PBW1	PBW	10/25/24 16:24				2.2	mg/L		-20	20			
WG600071LCSW3	LCSW	10/25/24 16:37	WC241015-1	820.0001		811.3	mg/L	99	90	110			
WG600071LCSW6	LCSW	10/25/24 18:47	WC241015-1	820.0001		785.3	mg/L	96	90	110			
WG600071PBW2	PBW	10/25/24 18:57				5.6	mg/L		-20	20			
L91146-02DUP	DUP	10/25/24 21:45			415	408	mg/L				2	20	
WG600071LCSW9	LCSW	10/25/24 21:58	WC241015-1	820.0001		801.5	mg/L	98	90	110			
WG600071PBW3	PBW	10/25/24 22:08				5.7	mg/L		-20	20			
WG600071LCSW12	LCSW	10/25/24 22:34	WC241015-1	820.0001		807.6	mg/L	98	90	110			

Antimony, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.02		.01948	mg/L	97	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0012	0.0012			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0012	0.0012			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.01		.01021	mg/L	102	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.01	U	.01086	mg/L	109	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.01	U	.01087	mg/L	109	75	125	0	20	

Arsenic, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600793													
WG600793ICV	ICV	11/06/24 17:44	MS241016-2	.05		.05159	mg/L	103	90	110			
WG600793ICB	ICB	11/06/24 17:45				U	mg/L		-0.0006	0.0006			
WG600037PBW	PBW	11/06/24 17:56				U	mg/L		-0.0006	0.0006			
WG600037LCSW	LCSW	11/06/24 17:58	MS241008-3	.0501		.05403	mg/L	108	80	120			
WG600424PBW	PBW	11/06/24 18:14				U	mg/L		-0.0006	0.0006			
WG600424LCSW	LCSW	11/06/24 18:16	MS241008-3	.0501		.05354	mg/L	107	80	120			
L91151-04MS	MS	11/06/24 18:48	MS241008-3	.0501	.00108	.06126	mg/L	120	75	125			
L91151-04MSD	MSD	11/06/24 18:50	MS241008-3	.0501	.00108	.06045	mg/L	119	75	125	1	20	
WG600585PBW	PBW	11/06/24 18:56				U	mg/L		-0.0006	0.0006			
WG600585LCSW	LCSW	11/06/24 18:57	MS241008-3	.0501		.0535	mg/L	107	80	120			

Barium, total EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600294													
WG600294ICV	ICV	10/29/24 23:26	II241022-1	2		1.947	mg/L	97	90	110			
WG600294ICB	ICB	10/29/24 23:29				U	mg/L		-0.027	0.027			
WG600160PBW	PBW	10/29/24 23:53				U	mg/L		-0.027	0.027			
WG600160LCSW	LCSW	10/29/24 23:57	II241018-2	.5025		.4786	mg/L	95	80	120			
L91061-05MS	MS	10/30/24 1:12	II241018-2	.5025	U	.4435	mg/L	88	75	125			
L91061-05MSD	MSD	10/30/24 1:23	II241018-2	.5025	U	.4685	mg/L	93	75	125	5	20	

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.047241	mg/L	94	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.00024	0.00024			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.00024	0.00024			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.0501		.047274	mg/L	94	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.0501	U	.046247	mg/L	92	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.0501	U	.046442	mg/L	93	75	125	0	20	

Cadmium, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.047154	mg/L	94	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.00015	0.00015			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.00015	0.00015			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.05005		.048182	mg/L	96	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.05005	U	.047928	mg/L	96	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.05005	U	.048234	mg/L	96	75	125	1	20	

Calcium, dissolved EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600869													
WG600869ICV	ICV	11/08/24 16:11	II241030-7	100		97.98	mg/L	98	90	110			
WG600869ICB	ICB	11/08/24 16:14				U	mg/L		-0.3	0.3			
L90906-01AS	AS	11/08/24 16:51	II241101-3	67.963	103	169.8	mg/L	98	75	125			
L90906-01ASD	ASD	11/08/24 16:55	II241101-3	67.963	103	167.3	mg/L	95	75	125	1	20	

Carbon, total organic (TOC) SM 5310 B-2011/2014

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG596271													
WG596271ICV	ICV	08/30/24 3:29	WI240821-3	100		102.6	mg/L	103	90	110			
WG596271ICB	ICB	08/30/24 3:44				U	mg/L		-2.5	2.5			
WG600152													
WG600152ICV	ICV	10/29/24 11:00	WI241001-2	100		98.9	mg/L	99	90	110			
WG600152ICB	ICB	10/29/24 11:13				U	mg/L		-2.5	2.5			
WG600152LFB	LFB	10/29/24 11:43	WI240821-4	50		49.5	mg/L	99	85	115			
L91114-02AS	AS	10/29/24 12:58	WI240821-4	50	2.9	51.4	mg/L	97	85	115			
L91114-02ASD	ASD	10/29/24 13:15	WI240821-4	50	2.9	51.8	mg/L	98	85	115	1	15	

Chloride SM 4500-Cl E-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600650													
WG600650ICV	ICV	11/05/24 11:05	WI231211-1	39.96		40.25	mg/L	101	90	110			
WG600650ICB	ICB	11/05/24 11:06				U	mg/L						
WG600650LFB	LFB	11/05/24 11:18	WI240820-1	20		20.45	mg/L	102	90	110			
L91114-01AS	AS	11/05/24 11:19	WI240820-1	20	U	21.17	mg/L	106	90	110			
L91114-01ASD	ASD	11/05/24 11:19	WI240820-1	20	U	21.22	mg/L	106	90	110	0	20	

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.04788	mg/L	96	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0015	0.0015			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0015	0.0015			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.05005		.04717	mg/L	94	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.05005	U	.04609	mg/L	92	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.05005	U	.04729	mg/L	94	75	125	3	20	

Cobalt, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600793													
WG600793ICV	ICV	11/06/24 17:44	MS241016-2	.05		.050166	mg/L	100	90	110			
WG600793ICB	ICB	11/06/24 17:45				U	mg/L		-0.00015	0.00015			
WG600037PBW	PBW	11/06/24 17:56				U	mg/L		-0.00015	0.00015			
WG600037LCSW	LCSW	11/06/24 17:58	MS241008-3	.05005		.05175	mg/L	103	80	120			
WG600424PBW	PBW	11/06/24 18:14				U	mg/L		-0.00015	0.00015			
WG600424LCSW	LCSW	11/06/24 18:16	MS241008-3	.05005		.0517	mg/L	103	80	120			
L91151-04MS	MS	11/06/24 18:48	MS241008-3	.05005	.000405	.053968	mg/L	107	75	125			
L91151-04MSD	MSD	11/06/24 18:50	MS241008-3	.05005	.000405	.055093	mg/L	109	75	125	2	20	
WG600585PBW	PBW	11/06/24 18:56				U	mg/L		-0.00015	0.00015			
WG600585LCSW	LCSW	11/06/24 18:57	MS241008-3	.05005		.05262	mg/L	105	80	120			

Conductivity @25C SM 2510 B-2011

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600071													
WG600071LCSW2	LCSW	10/25/24 16:34	PCN627273	1410		1415	umhos/cm	100	90	110			
WG600071LCSW5	LCSW	10/25/24 18:45	PCN627273	1410		1419	umhos/cm	101	90	110			
L91146-02DUP	DUP	10/25/24 21:45			9410	9410	umhos/cm				0	20	
WG600071LCSW8	LCSW	10/25/24 21:56	PCN627273	1410		1423	umhos/cm	101	90	110			
WG600071LCSW11	LCSW	10/25/24 22:32	PCN627273	1410		1421	umhos/cm	101	90	110			

Copper, total EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600294													
WG600294ICV	ICV	10/29/24 23:26	II241022-1	2		1.991	mg/L	100	90	110			
WG600294ICB	ICB	10/29/24 23:29				U	mg/L		-0.03	0.03			
WG600160PBW	PBW	10/29/24 23:53				U	mg/L		-0.03	0.03			
WG600160LCSW	LCSW	10/29/24 23:57	II241018-2	.5005		.499	mg/L	100	80	120			
L91061-05MS	MS	10/30/24 1:12	II241018-2	.5005	U	.437	mg/L	87	75	125			
L91061-05MSD	MSD	10/30/24 1:23	II241018-2	.5005	U	.459	mg/L	92	75	125	5	20	

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Lead, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.05171	mg/L	103	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0003	0.0003			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0003	0.0003			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.05005		.05253	mg/L	105	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.05005	U	.0591	mg/L	118	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.05005	U	.05978	mg/L	119	75	125	1	20	
WG600793													
WG600793ICV	ICV	11/06/24 17:44	MS241016-2	.05		.05216	mg/L	104	90	110			
WG600793ICB	ICB	11/06/24 17:45				U	mg/L		-0.0003	0.0003			
WG600037PBW	PBW	11/06/24 17:56				U	mg/L		-0.0003	0.0003			
WG600037LCSW	LCSW	11/06/24 17:58	MS241008-3	.05005		.05482	mg/L	110	80	120			
WG600424PBW	PBW	11/06/24 18:14				U	mg/L		-0.0003	0.0003			
WG600424LCSW	LCSW	11/06/24 18:16	MS241008-3	.05005		.05537	mg/L	111	80	120			
L91151-04MS	MS	11/06/24 18:48	MS241008-3	.05005	U	.05914	mg/L	118	75	125			
L91151-04MSD	MSD	11/06/24 18:50	MS241008-3	.05005	U	.05837	mg/L	117	75	125	1	20	
WG600585PBW	PBW	11/06/24 18:56				U	mg/L		-0.0003	0.0003			
WG600585LCSW	LCSW	11/06/24 18:57	MS241008-3	.05005		.05097	mg/L	102	80	120			

Magnesium, dissolved EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600869													
WG600869ICV	ICV	11/08/24 16:11	II241030-7	100		97.64	mg/L	98	90	110			
WG600869ICB	ICB	11/08/24 16:14				U	mg/L		-0.6	0.6			
L90906-01AS	AS	11/08/24 16:51	II241101-3	49.9596	30.5	83.25	mg/L	106	75	125			
L90906-01ASD	ASD	11/08/24 16:55	II241101-3	49.9596	30.5	81.7	mg/L	102	75	125	2	20	

Nickel, total EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600294													
WG600294ICV	ICV	10/29/24 23:26	II241022-1	2.004		1.878	mg/L	94	90	110			
WG600294ICB	ICB	10/29/24 23:29				U	mg/L		-0.024	0.024			
WG600160PBW	PBW	10/29/24 23:53				U	mg/L		-0.024	0.024			
WG600160LCSW	LCSW	10/29/24 23:57	II241018-2	.5005		.4824	mg/L	96	80	120			
L91061-05MS	MS	10/30/24 1:12	II241018-2	.5005	U	.449	mg/L	90	75	125			
L91061-05MSD	MSD	10/30/24 1:23	II241018-2	.5005	U	.466	mg/L	93	75	125	4	20	

Nitrate/Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600020													
WG600020ICV	ICV	10/24/24 23:28	WI240725-5	2.416		2.393	mg/L	99	90	110			
WG600020ICB	ICB	10/24/24 23:29				U	mg/L		-0.02	0.02			
WG600020LFB	LFB	10/24/24 23:33	WI240828-3	2		1.967	mg/L	98	90	110			
L91132-02AS	AS	10/24/24 23:55	WI240828-3	2	U	2.001	mg/L	100	90	110			
L91132-03DUP	DUP	10/24/24 23:58			.14	.147	mg/L				5	20	RA

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Nitrite as N EPA 353.2

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600020													
WG600020ICV	ICV	10/24/24 23:28	WI240725-5	.609		.612	mg/L	100	90	110			
WG600020ICB	ICB	10/24/24 23:29				U	mg/L		-0.01	0.01			
WG600020LFB	LFB	10/24/24 23:33	WI240828-3	1		1.009	mg/L	101	90	110			
L91132-02AS	AS	10/24/24 23:55	WI240828-3	1	U	1.011	mg/L	101	90	110			
L91132-03DUP	DUP	10/24/24 23:58			U	U	mg/L				0	20	RA

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600071													
WG600071LCSW1	LCSW	10/25/24 16:32	PCN624449	6		5.99	units	100	5.9	6.1			
WG600071LCSW4	LCSW	10/25/24 18:42	PCN624449	6		6	units	100	5.9	6.1			
L91146-02DUP	DUP	10/25/24 21:45			7.8	7.1	units				9	20	
WG600071LCSW7	LCSW	10/25/24 21:53	PCN624449	6		5.99	units	100	5.9	6.1			
WG600071LCSW10	LCSW	10/25/24 22:29	PCN624449	6		5.99	units	100	5.9	6.1			

Potassium, dissolved EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600869													
WG600869ICV	ICV	11/08/24 16:11	II241030-7	20		19.52	mg/L	98	90	110			
WG600869ICB	ICB	11/08/24 16:14				U	mg/L		-1.5	1.5			
L90906-01AS	AS	11/08/24 16:51	II241101-3	100.0859	1.55	107	mg/L	105	75	125			
L90906-01ASD	ASD	11/08/24 16:55	II241101-3	100.0859	1.55	105.1	mg/L	103	75	125	2	20	

Selenium, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.05085	mg/L	102	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0003	0.0003			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0003	0.0003			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.05005		.04955	mg/L	99	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.05005	U	.03666	mg/L	73	75	125			MA
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.05005	U	.03733	mg/L	75	75	125	2	20	

Silver, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.02		.02023	mg/L	101	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0003	0.0003			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0003	0.0003			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.01		.00983	mg/L	98	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.01	.00376	.01119	mg/L	74	75	125			MA
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.01	.00376	.01149	mg/L	77	75	125	3	20	

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sodium, dissolved EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600869													
WG600869ICV	ICV	11/08/24 16:11	II241030-7	100		98.62	mg/L	99	90	110			
WG600869ICB	ICB	11/08/24 16:14				U	mg/L		-0.6	0.6			
L90906-01AS	AS	11/08/24 16:51	II241101-3	100.0817	299	389	mg/L	90	75	125			
L90906-01ASD	ASD	11/08/24 16:55	II241101-3	100.0817	299	384	mg/L	85	75	125	1	20	

Sulfate ASTM D516-07/-11/-16

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600615													
WG600615ICV	ICV	11/05/24 13:56	WI241028-5	20.02		21.2	mg/L	106	85	115			
WG600615ICB	ICB	11/05/24 13:56				U	mg/L		-2.5	2.5			
WG600615LFB	LFB	11/05/24 14:06	WI241001-1	10		10.8	mg/L	108	85	115			
L91114-01AS	AS	11/05/24 14:15	SO4TURB5X	10	36	40.3	mg/L	43	85	115			M2
L91114-01ASD	ASD	11/05/24 14:15	SO4TURB5X	10	36	43.8	mg/L	78	85	115	8	20	M2

Thallium, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.05003	mg/L	100	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.0003	0.0003			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.0003	0.0003			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.0501		.04872	mg/L	97	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.0501	U	.05778	mg/L	115	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.0501	U	.05855	mg/L	117	75	125	1	20	

Vanadium, total EPA 6010D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600294													
WG600294ICV	ICV	10/29/24 23:26	II241022-1	2		2.025	mg/L	101	90	110			
WG600294ICB	ICB	10/29/24 23:29				U	mg/L		-0.03	0.03			
WG600160PBW	PBW	10/29/24 23:53				U	mg/L		-0.03	0.03			
WG600160LCSW	LCSW	10/29/24 23:57	II241018-2	.5005		.502	mg/L	100	80	120			
L91061-05MS	MS	10/30/24 1:12	II241018-2	.5005	U	.448	mg/L	90	75	125			
L91061-05MSD	MSD	10/30/24 1:23	II241018-2	.5005	U	.468	mg/L	94	75	125	4	20	

TWIN

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Zinc, total EPA 6020B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG600586													
WG600586ICV	ICV	11/04/24 13:19	MS241016-2	.05		.0472	mg/L	94	90	110			
WG600586ICB	ICB	11/04/24 13:20				U	mg/L		-0.018	0.018			
WG600424PBW	PBW	11/04/24 13:31				U	mg/L		-0.018	0.018			
WG600424LCSW	LCSW	11/04/24 13:33	MS241008-3	.050015		.0501	mg/L	100	80	120			
L91151-04MS	MS	11/04/24 14:20	MS241008-3	.050015	U	.0577	mg/L	115	75	125			
L91151-04MSD	MSD	11/04/24 14:22	MS241008-3	.050015	U	.0576	mg/L	115	75	125	0	20	
WG600793													
WG600793ICV	ICV	11/06/24 17:44	MS241016-2	.05		.0493	mg/L	99	90	110			
WG600793ICB	ICB	11/06/24 17:45				U	mg/L		-0.018	0.018			
WG600037PBW	PBW	11/06/24 17:56				U	mg/L		-0.018	0.018			
WG600037LCSW	LCSW	11/06/24 17:58	MS241008-3	.050015		.052	mg/L	104	80	120			
WG600424PBW	PBW	11/06/24 18:14				U	mg/L		-0.018	0.018			
WG600424LCSW	LCSW	11/06/24 18:16	MS241008-3	.050015		.0521	mg/L	104	80	120			
L91151-04MS	MS	11/06/24 18:48	MS241008-3	.050015	U	.0605	mg/L	121	75	125			
L91151-04MSD	MSD	11/06/24 18:50	MS241008-3	.050015	U	.0604	mg/L	121	75	125	0	20	
WG600585PBW	PBW	11/06/24 18:56				U	mg/L		-0.018	0.018			
WG600585LCSW	LCSW	11/06/24 18:57	MS241008-3	.050015		.0507	mg/L	101	80	120			

Twin Landfill Corporation ACZ Project ID: ***L91136***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L91136-01	WG600586	Cadmium, total	EPA 6020B	N1	See Case Narrative.
	WG600020	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 353.2	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 353.2	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG600869	Potassium, dissolved	EPA 6010D	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG600586	Selenium, total	EPA 6020B	DH	Sample required dilution due to high TDS and/or EC value.
			EPA 6020B	EA	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
			EPA 6020B	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
		Silver, total	EPA 6020B	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG600869	Sodium, dissolved	EPA 6010D	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG600615	Sulfate	ASTM D516-07/-11/-16	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG600586	Thallium, total	EPA 6020B	N1A	See Case Narrative.
	WG600160	Total Hot Plate Digestion	EPA 3010A	DH	Sample required dilution due to high TDS and/or EC value.

Twin Landfill Corporation ACZ Project ID: ***L91136***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L91136-02	WG600586	Cadmium, total	EPA 6020B	N1	See Case Narrative.
		Lead, total	EPA 6020B	N1A	See Case Narrative.
	WG600020	Nitrate/Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 353.2	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N	EPA 353.2	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 353.2	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG600869	Potassium, dissolved	EPA 6010D	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG600586	Selenium, total	EPA 6020B	DH	Sample required dilution due to high TDS and/or EC value.
			EPA 6020B	EA	Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.
			EPA 6020B	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
		Silver, total	EPA 6020B	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG600869	Sodium, dissolved	EPA 6010D	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG600615	Sulfate	ASTM D516-07/-11/-16	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG600586	Thallium, total	EPA 6020B	N1A	See Case Narrative.
	WG600160	Total Hot Plate Digestion	EPA 3010A	DH	Sample required dilution due to high TDS and/or EC value.
	WG600586	Zinc, total	EPA 6020B	N1A	See Case Narrative.

Twin Landfill Corporation
Project ID:
Sample ID: MOD 1

ACZ Sample ID: ***L91136-01***
Date Sampled: *10/24/24 9:55*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Volatile Organics by GC/MS

Analysis Method: **EPA 8260C/D**
Extract Method:

Workgroup: WG600356
Analyst: ipc
Extract Date:
Analysis Date: 10/30/24 16:24

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6	<0.5	U	1	*	ug/L	0.5	1
1,1,1-Trichloroethane	71-55-6	<0.5	U	1	*	ug/L	0.5	2
1,1,2,2-Tetrachloroethane	79-34-5	<0.01	U	1	*	ug/L	0.01	0.01
1,1,2-Trichloroethane	79-00-5	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethane	75-34-3	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethene	75-35-4	<0.5	U	1	*	ug/L	0.5	1
1,2,3-Trichloropropane	96-18-4	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromo-3-chloropropane	96-12-8	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromoethane	106-93-4	<0.01	U	1	*	ug/L	0.01	0.01
1,2-Dichlorobenzene	95-50-1	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloroethane	107-06-2	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloropropane	78-87-5	<0.5	U	1	*	ug/L	0.5	1
1,4-Dichlorobenzene	106-46-7	<0.5	U	1	*	ug/L	0.5	1
2-Butanone	78-93-3	10.1		1	*	ug/L	0.5	2
2-Hexanone	591-78-6	<0.5	U	1	*	ug/L	0.5	2
4-Methyl-2-Pentanone	108-10-1	0.82	J	1	*	ug/L	0.5	2
Acetone	67-64-1	19.7		1	*	ug/L	2	10
Acrylonitrile	107-13-1	<0.05	U	1	*	ug/L	0.05	0.05
Benzene	71-43-2	4.24		1	*	ug/L	0.2	1
Bromochloromethane	74-97-5	<0.5	U	1	*	ug/L	0.5	1
Bromodichloromethane	75-27-4	<0.5	U	1	*	ug/L	0.5	1
Bromoform	75-25-2	<0.5	U	1	*	ug/L	0.5	1
Bromomethane	74-83-9	<0.5	U	1	*	ug/L	0.5	2
Carbon Disulfide	75-15-0	<0.5	U	1	*	ug/L	0.5	1
Carbon Tetrachloride	56-23-5	<0.5	U	1	*	ug/L	0.5	1
Chlorobenzene	108-90-7	<0.5	U	1	*	ug/L	0.5	1
Chloroethane	75-00-3	<0.5	U	1	*	ug/L	0.5	2
Chloroform	67-66-3	<0.5	U	1	*	ug/L	0.5	1
Chloromethane	74-87-3	0.51	J	1	*	ug/L	0.5	1
cis-1,2-Dichloroethene	156-59-2	<0.5	U	1	*	ug/L	0.5	1
cis-1,3-Dichloropropene	10061-01-5	<0.5	U	1	*	ug/L	0.5	1
Dibromochloromethane	124-48-1	<0.5	U	1	*	ug/L	0.5	1
Dibromomethane	74-95-3	0.021		1	*	ug/L	0.01	0.01
Ethylbenzene	100-41-4	<0.2	U	1	*	ug/L	0.2	1
Iodomethane	74-88-4	<0.5	U	1	*	ug/L	0.5	1
m p Xylene	1330-20-7	0.74	J	1	*	ug/L	0.4	2
Methylene Chloride	75-09-2	<0.5	U	1	*	ug/L	0.5	1
o Xylene	95-47-6	1.24		1	*	ug/L	0.2	1

Twin Landfill Corporation
Project ID:
Sample ID: MOD 1

ACZ Sample ID: ***L91136-01***
Date Sampled: *10/24/24 9:55*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Styrene	100-42-5	<0.5	U	1	*	ug/L	0.5	1
Tetrachloroethene	127-18-4	<0.5	U	1	*	ug/L	0.5	1
Toluene	108-88-3	0.72	J	1	*	ug/L	0.2	1
trans-1,2-Dichloroethene	156-60-5	<0.5	U	1	*	ug/L	0.5	1
trans-1,3-Dichloropropene	10061-02-6	<0.5	U	1	*	ug/L	0.5	1
trans-1,4-Dichloro-2-butene	110-57-6	<0.5	U	1	*	ug/L	0.5	1
Trichloroethene	79-01-6	<0.5	U	1	*	ug/L	0.5	1
Trichlorofluoromethane	75-69-4	<0.5	U	1	*	ug/L	0.5	1
Vinyl Acetate	108-05-4	<0.5	U	1	*	ug/L	0.5	2
Vinyl Chloride	75-01-4	0.051		1	*	ug/L	0.02	0.05
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	30135-88-7	100.8		1		%	70	130
Dibromofluoromethane	1868-53-7	103		1		%	70	130
Toluene-d8	2037-26-5	97.2		1		%	70	130

Twin Landfill Corporation
Project ID:
Sample ID: TANK 5/6

ACZ Sample ID: ***L91136-02***
Date Sampled: *10/24/24 9:30*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Volatile Organics by GC/MS

Analysis Method: **EPA 8260C/D**
Extract Method:

Workgroup: WG600356
Analyst: ipc
Extract Date:
Analysis Date: 10/30/24 16:53

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6	<0.5	U	1	*	ug/L	0.5	1
1,1,1-Trichloroethane	71-55-6	<0.5	U	1	*	ug/L	0.5	2
1,1,2,2-Tetrachloroethane	79-34-5	<0.01	U	1	*	ug/L	0.01	0.01
1,1,2-Trichloroethane	79-00-5	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethane	75-34-3	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethene	75-35-4	<0.5	U	1	*	ug/L	0.5	1
1,2,3-Trichloropropane	96-18-4	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromo-3-chloropropane	96-12-8	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromoethane	106-93-4	<0.01	U	1	*	ug/L	0.01	0.01
1,2-Dichlorobenzene	95-50-1	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloroethane	107-06-2	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloropropane	78-87-5	<0.5	U	1	*	ug/L	0.5	1
1,4-Dichlorobenzene	106-46-7	<0.5	U	1	*	ug/L	0.5	1
2-Butanone	78-93-3	3.7		1	*	ug/L	0.5	2
2-Hexanone	591-78-6	<0.5	U	1	*	ug/L	0.5	2
4-Methyl-2-Pentanone	108-10-1	<0.5	U	1	*	ug/L	0.5	2
Acetone	67-64-1	5.2	J	1	*	ug/L	2	10
Acrylonitrile	107-13-1	<0.05	U	1	*	ug/L	0.05	0.05
Benzene	71-43-2	<0.2	U	1		ug/L	0.2	1
Bromochloromethane	74-97-5	<0.5	U	1	*	ug/L	0.5	1
Bromodichloromethane	75-27-4	<0.5	U	1	*	ug/L	0.5	1
Bromoform	75-25-2	<0.5	U	1	*	ug/L	0.5	1
Bromomethane	74-83-9	<0.5	U	1	*	ug/L	0.5	2
Carbon Disulfide	75-15-0	<0.5	U	1	*	ug/L	0.5	1
Carbon Tetrachloride	56-23-5	<0.5	U	1	*	ug/L	0.5	1
Chlorobenzene	108-90-7	<0.5	U	1	*	ug/L	0.5	1
Chloroethane	75-00-3	<0.5	U	1	*	ug/L	0.5	2
Chloroform	67-66-3	<0.5	U	1	*	ug/L	0.5	1
Chloromethane	74-87-3	<0.5	U	1	*	ug/L	0.5	1
cis-1,2-Dichloroethene	156-59-2	<0.5	U	1	*	ug/L	0.5	1
cis-1,3-Dichloropropene	10061-01-5	<0.5	U	1	*	ug/L	0.5	1
Dibromochloromethane	124-48-1	<0.5	U	1	*	ug/L	0.5	1
Dibromomethane	74-95-3	0.012		1	*	ug/L	0.01	0.01
Ethylbenzene	100-41-4	<0.2	U	1	*	ug/L	0.2	1
Iodomethane	74-88-4	<0.5	U	1	*	ug/L	0.5	1
m p Xylene	1330-20-7	<0.4	U	1	*	ug/L	0.4	2
Methylene Chloride	75-09-2	<0.5	U	1	*	ug/L	0.5	1
o Xylene	95-47-6	<0.2	U	1	*	ug/L	0.2	1

Twin Landfill Corporation
Project ID:
Sample ID: TANK 5/6

ACZ Sample ID: ***L91136-02***
Date Sampled: *10/24/24 9:30*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Styrene	100-42-5	<0.5	U	1	*	ug/L	0.5	1
Tetrachloroethene	127-18-4	<0.5	U	1	*	ug/L	0.5	1
Toluene	108-88-3	<0.2	U	1	*	ug/L	0.2	1
trans-1,2-Dichloroethene	156-60-5	<0.5	U	1	*	ug/L	0.5	1
trans-1,3-Dichloropropene	10061-02-6	<0.5	U	1	*	ug/L	0.5	1
trans-1,4-Dichloro-2-butene	110-57-6	<0.5	U	1	*	ug/L	0.5	1
Trichloroethene	79-01-6	<0.5	U	1	*	ug/L	0.5	1
Trichlorofluoromethane	75-69-4	<0.5	U	1	*	ug/L	0.5	1
Vinyl Acetate	108-05-4	<0.5	U	1	*	ug/L	0.5	2
Vinyl Chloride	75-01-4	0.03	J	1	*	ug/L	0.02	0.05

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	30135-88-7	100.4	1		%	70	130
Dibromofluoromethane	1868-53-7	100.5	1		%	70	130
Toluene-d8	2037-26-5	96.2	1		%	70	130

Twin Landfill Corporation
Project ID:
Sample ID: TB241023-07

ACZ Sample ID: ***L91136-03***
Date Sampled: *10/24/24 0:00*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Volatile Organics by GC/MS

Analysis Method: **EPA 8260C/D**
Extract Method:

Workgroup: WG600356
Analyst: ipc
Extract Date:
Analysis Date: 10/30/24 14:03

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6	<0.5	U	1	*	ug/L	0.5	1
1,1,1-Trichloroethane	71-55-6	<0.5	U	1	*	ug/L	0.5	2
1,1,2,2-Tetrachloroethane	79-34-5	<0.01	U	1	*	ug/L	0.01	0.01
1,1,2-Trichloroethane	79-00-5	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethane	75-34-3	<0.5	U	1	*	ug/L	0.5	1
1,1-Dichloroethene	75-35-4	<0.5	U	1	*	ug/L	0.5	1
1,2,3-Trichloropropane	96-18-4	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromo-3-chloropropane	96-12-8	<0.5	U	1	*	ug/L	0.5	1
1,2-Dibromoethane	106-93-4	<0.01	U	1	*	ug/L	0.01	0.01
1,2-Dichlorobenzene	95-50-1	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloroethane	107-06-2	<0.5	U	1	*	ug/L	0.5	1
1,2-Dichloropropane	78-87-5	<0.5	U	1	*	ug/L	0.5	1
1,4-Dichlorobenzene	106-46-7	<0.5	U	1	*	ug/L	0.5	1
2-Butanone	78-93-3	<0.5	U	1	*	ug/L	0.5	2
2-Hexanone	591-78-6	<0.5	U	1	*	ug/L	0.5	2
4-Methyl-2-Pentanone	108-10-1	<0.5	U	1	*	ug/L	0.5	2
Acetone	67-64-1	<2	U	1	*	ug/L	2	10
Acrylonitrile	107-13-1	<0.05	U	1	*	ug/L	0.05	0.05
Benzene	71-43-2	<0.2	U	1		ug/L	0.2	1
Bromochloromethane	74-97-5	<0.5	U	1	*	ug/L	0.5	1
Bromodichloromethane	75-27-4	<0.5	U	1	*	ug/L	0.5	1
Bromoform	75-25-2	<0.5	U	1	*	ug/L	0.5	1
Bromomethane	74-83-9	<0.5	U	1	*	ug/L	0.5	2
Carbon Disulfide	75-15-0	<0.5	U	1	*	ug/L	0.5	1
Carbon Tetrachloride	56-23-5	<0.5	U	1	*	ug/L	0.5	1
Chlorobenzene	108-90-7	<0.5	U	1	*	ug/L	0.5	1
Chloroethane	75-00-3	<0.5	U	1	*	ug/L	0.5	2
Chloroform	67-66-3	<0.5	U	1	*	ug/L	0.5	1
Chloromethane	74-87-3	<0.5	U	1	*	ug/L	0.5	1
cis-1,2-Dichloroethene	156-59-2	<0.5	U	1	*	ug/L	0.5	1
cis-1,3-Dichloropropene	10061-01-5	<0.5	U	1	*	ug/L	0.5	1
Dibromochloromethane	124-48-1	<0.5	U	1	*	ug/L	0.5	1
Dibromomethane	74-95-3	<0.01	U	1	*	ug/L	0.01	0.01
Ethylbenzene	100-41-4	<0.2	U	1	*	ug/L	0.2	1
Iodomethane	74-88-4	<0.5	U	1	*	ug/L	0.5	1
m p Xylene	1330-20-7	<0.4	U	1	*	ug/L	0.4	2
Methylene Chloride	75-09-2	<0.5	U	1	*	ug/L	0.5	1
o Xylene	95-47-6	<0.2	U	1	*	ug/L	0.2	1

Twin Landfill Corporation
Project ID:
Sample ID: TB241023-07

ACZ Sample ID: ***L91136-03***
Date Sampled: *10/24/24 0:00*
Date Received: *10/24/24*
Sample Matrix: *Groundwater*

Styrene	100-42-5	<0.5	U	1	*	ug/L	0.5	1
Tetrachloroethene	127-18-4	<0.5	U	1	*	ug/L	0.5	1
Toluene	108-88-3	<0.2	U	1	*	ug/L	0.2	1
trans-1,2-Dichloroethene	156-60-5	<0.5	U	1	*	ug/L	0.5	1
trans-1,3-Dichloropropene	10061-02-6	<0.5	U	1	*	ug/L	0.5	1
trans-1,4-Dichloro-2-butene	110-57-6	<0.5	U	1	*	ug/L	0.5	1
Trichloroethene	79-01-6	<0.5	U	1	*	ug/L	0.5	1
Trichlorofluoromethane	75-69-4	<0.5	U	1	*	ug/L	0.5	1
Vinyl Acetate	108-05-4	<0.5	U	1	*	ug/L	0.5	2
Vinyl Chloride	75-01-4	<0.02	U	1	*	ug/L	0.02	0.05
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	30135-88-7	99.7		1		%	70	130
Dibromofluoromethane	1868-53-7	101.1		1		%	70	130
Toluene-d8	2037-26-5	96.2		1		%	70	130

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

SURR	Surrogate	*LFB*	Laboratory Fortified Blank
INTS	Internal Standard	*LFM*	Laboratory Fortified Matrix
AS	Analytical Spike (Post Digestion)	*LFMD*	Laboratory Fortified Matrix Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LRB*	Laboratory Reagent Blank
DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3)	EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
(3)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(4)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

Twin Landfill Corporation ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Volatile Organics by GC/MS

EPA 8260C/D

WG600356

DUP **Sample ID: L91151-03DUP** **Analyzed: 10/30/24 17:49**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE		U	U	ug/L				0	20	RA
1,1,1-TRICHLOROETHANE		U	U	ug/L				0	20	RA
1,1,2,2-TETRACHLOROETHANE		U	U	ug/L				0	20	RA
1,1,2-TRICHLOROETHANE		U	U	ug/L				0	20	RA
1,1-DICHLOROETHANE		U	U	ug/L				0	20	RA
1,1-DICHLOROETHENE		U	U	ug/L				0	20	RA
1,2,3-TRICHLOROPROPANE		U	U	ug/L				0	20	RA
1,2-DIBROMO-3-CHLOROPROPANE		U	U	ug/L				0	20	RA
1,2-DIBROMOETHANE		U	U	ug/L				0	20	RA
1,2-DICHLOROBENZENE		U	U	ug/L				0	20	RA
1,2-DICHLOROETHANE		U	U	ug/L				0	20	RA
1,2-DICHLOROPROPANE		U	U	ug/L				0	20	RA
1,3-DICHLOROBENZENE		U	U	ug/L				0	20	RA
1,4-DICHLOROBENZENE		U	U	ug/L				0	20	RA
2-BUTANONE		U	U	ug/L				0	20	RA
2-HEXANONE		U	U	ug/L				0	20	RA
4-METHYL-2-PENTANONE		U	U	ug/L				0	20	RA
ACETONE		U	U	ug/L				0	20	RA
ACRYLONITRILE		U	U	ug/L				0	20	RA
BENZENE		38.5	40.3	ug/L				5	20	
BROMOCHLOROMETHANE		U	U	ug/L				0	20	RA
BROMODICHLOROMETHANE		U	U	ug/L				0	20	RA
BROMOFORM		U	U	ug/L				0	20	RA
BROMOMETHANE		U	U	ug/L				0	20	RA
CARBON DISULFIDE		U	U	ug/L				0	20	RA
CARBON TETRACHLORIDE		U	U	ug/L				0	20	RA
CHLOROBENZENE		U	U	ug/L				0	20	RA
CHLOROETHANE		U	U	ug/L				0	20	RA
CHLOROFORM		U	U	ug/L				0	20	RA
CHLOROMETHANE		U	U	ug/L				0	20	RA
CIS-1,2-DICHLOROETHENE		U	U	ug/L				0	20	RA
CIS-1,3-DICHLOROPROPENE		U	U	ug/L				0	20	RA
DIBROMOCHLOROMETHANE		U	U	ug/L				0	20	RA
DIBROMOMETHANE		U	U	ug/L				0	20	RA
DICHLORODIFLUOROMETHANE		U	U	ug/L				0	20	RA
ETHYLBENZENE		1.67	1.65	ug/L				1	20	RA
IODOMETHANE		U	U	ug/L				0	20	RA
M P XYLENE		1.02	1.01	ug/L				1	20	RA
METHYLENE CHLORIDE		U	U	ug/L				0	20	RA
O XYLENE		.36	.34	ug/L				6	20	RA
STYRENE		U	U	ug/L				0	20	RA
TETRACHLOROETHENE		U	U	ug/L				0	20	RA
TOLUENE		.2	.2	ug/L				0	20	RA
TRANS-1,2-DICHLOROETHENE		U	U	ug/L				0	20	RA

Twin Landfill Corporation ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

TRANS-1,3-DICHLOROPROPENE	U	U	ug/L				0	20	RA
TRANS-1,4-DICHLORO-2-BUTENE	U	U	ug/L				0	20	RA
TRICHLOROETHENE	U	U	ug/L				0	20	RA
TRICHLOROFLUOROMETHANE	U	U	ug/L				0	20	RA
VINYL ACETATE	U	U	ug/L				0	20	RA
VINYL CHLORIDE	U	U	ug/L				0	20	RA
BROMOFLUOROBENZENE (surr)			%	100.1	70	130			
DIBROMOFLUOROMETHANE (surr)			%	100.8	70	130			
TOLUENE-D8 (surr)			%	97.0	70	130			

AS **Sample ID: L91197-10AS** **PCN/SCN: V241028-1-CCVL** **Analyzed: 10/30/24 21:37**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE	10	U	10.57	ug/L	105.0	70	130			
1,1,1-TRICHLOROETHANE	10.1	U	12.67	ug/L	126.0	70	130			
1,1,2,2-TETRACHLOROETHANE	10	U	10.815	ug/L	108.0	70	130			
1,1,2-TRICHLOROETHANE	10	U	10.49	ug/L	105.0	70	130			
1,1-DICHLOROETHANE	10	U	11.68	ug/L	117.0	70	130			
1,1-DICHLOROETHENE	10	U	13.73	ug/L	137.0	70	130			M1
1,2,3-TRICHLOROPROPANE	10	U	10.4	ug/L	104.0	70	130			
1,2-DIBROMO-3-CHLOROPROPANE	10	U	10.51	ug/L	106.0	70	130			
1,2-DIBROMOETHANE	10	U	10.309	ug/L	103.0	70	130			
1,2-DICHLOROBENZENE	10	U	10.5	ug/L	105.0	70	130			
1,2-DICHLOROETHANE	10	U	11.17	ug/L	111.0	70	130			
1,2-DICHLOROPROPANE	10	U	10.91	ug/L	109.0	70	130			
1,3-DICHLOROBENZENE	10		10.57	ug/L	106.0	70	130			
1,4-DICHLOROBENZENE	10.1	U	10.56	ug/L	105.0	70	130			
2-BUTANONE	20	U	22.3	ug/L	112.0	70	130			
2-HEXANONE	20	U	21.2	ug/L	106.0	70	130			
4-METHYL-2-PENTANONE	20	U	21.66	ug/L	108.0	70	130			
ACETONE	20	U	22.2	ug/L	111.0	70	130			
ACRYLONITRILE	10	U	11.215	ug/L	112.0	70	130			
BENZENE	10	U	11.69	ug/L	117.0	70	130			
BROMOCHLOROMETHANE	10	U	11.22	ug/L	112.0	70	130			
BROMODICHLOROMETHANE	10	U	10.84	ug/L	108.0	70	130			
BROMOFORM	10	U	10.42	ug/L	104.0	70	130			
BROMOMETHANE	9.9	U	11.96	ug/L	120.0	70	130			
CARBON DISULFIDE	10	U	12.58	ug/L	126.0	70	130			
CARBON TETRACHLORIDE	10	U	13.33	ug/L	133.0	70	130			M1
CHLOROBENZENE	10	U	10.72	ug/L	107.0	70	130			
CHLOROETHANE	10.1	U	12.52	ug/L	124.0	70	130			
CHLOROFORM	10	U	11.28	ug/L	113.0	70	130			
CHLOROMETHANE	9.9	U	12.4	ug/L	125.0	70	130			
CIS-1,2-DICHLOROETHENE	10	U	11.43	ug/L	114.0	70	130			
CIS-1,3-DICHLOROPROPENE	10	U	10.81	ug/L	108.0	70	130			
DIBROMOCHLOROMETHANE	10	U	10.54	ug/L	105.0	70	130			
DIBROMOMETHANE	10	U	10.68	ug/L	107.0	70	130			
DICHLORODIFLUOROMETHANE	9.9		14.43	ug/L	145.0	70	130			M1
ETHYLBENZENE	10	U	11.26	ug/L	113.0	70	130			
IODOMETHANE	10	U	11.75	ug/L	118.0	70	130			

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

M P XYLENE	19.9	U	22.2	ug/L	111.0	70	130	
METHYLENE CHLORIDE	10	U	11	ug/L	110.0	70	130	
O XYLENE	9.9	U	10.95	ug/L	110.0	70	130	
STYRENE	10	U	11.08	ug/L	111.0	70	130	
TETRACHLOROETHENE	10	U	12.14	ug/L	121.0	71	130	
TOLUENE	10	U	11.33	ug/L	113.0	70	130	
TRANS-1,2-DICHLOROETHENE	10	U	12.22	ug/L	122.0	70	130	
TRANS-1,3-DICHLOROPROPENE	10	U	10.33	ug/L	103.0	70	130	
TRANS-1,4-DICHLORO-2-BUTENE	10	U	8.95	ug/L	90.0	70	130	
TRICHLOROETHENE	10	U	11.03	ug/L	110.0	71	130	
TRICHLOROFLUOROMETHANE	10.1	U	13.86	ug/L	137.0	70	130	M1
VINYL ACETATE	10.1	U	14.57	ug/L	145.0	70	130	M1
VINYL CHLORIDE	9.9	U	13.744	ug/L	139.0	70	130	M1
BROMOFLUOROBENZENE (surr)				%	100.5	70	130	
DIBROMOFLUOROMETHANE (surr)				%	101.6	70	130	
TOLUENE-D8 (surr)				%	97.2	70	130	

LCSW **Sample ID: WG600356LCSW** **PCN/SCN: V241028-1-CCVL** **Analyzed: 10/30/24 11:42**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE	10		10.05	ug/L	100.0	70	130			
1,1,1-TRICHLOROETHANE	10.1		11.03	ug/L	109.0	70	130			
1,1,2,2-TETRACHLOROETHANE	10		10.132	ug/L	101.0	70	130			
1,1,2-TRICHLOROETHANE	10		10.25	ug/L	102.0	70	130			
1,1-DICHLOROETHANE	10		10.8	ug/L	108.0	70	130			
1,1-DICHLOROETHENE	10		11.2	ug/L	112.0	70	130			
1,2,3-TRICHLOROPROPANE	10		10.04	ug/L	101.0	70	130			
1,2-DIBROMO-3-CHLOROPROPANE	10		9.84	ug/L	99.0	70	130			
1,2-DIBROMOETHANE	10		9.801	ug/L	98.0	70	130			
1,2-DICHLOROBENZENE	10		10.08	ug/L	101.0	70	130			
1,2-DICHLOROETHANE	10		10.49	ug/L	104.0	70	130			
1,2-DICHLOROPROPANE	10		10.18	ug/L	102.0	70	130			
1,3-DICHLOROBENZENE	10		10.12	ug/L	102.0	70	130			
1,4-DICHLOROBENZENE	10.1		10.09	ug/L	100.0	70	130			
2-BUTANONE	20		21.52	ug/L	108.0	70	130			
2-HEXANONE	20		20.67	ug/L	103.0	70	130			
4-METHYL-2-PENTANONE	20		21.02	ug/L	105.0	70	130			
ACETONE	20		22.2	ug/L	111.0	70	130			
ACRYLONITRILE	10		11.095	ug/L	111.0	70	130			
BENZENE	10		10.59	ug/L	106.0	70	130			
BROMOCHLOROMETHANE	10		10.64	ug/L	106.0	70	130			
BROMODICHLOROMETHANE	10		10.35	ug/L	104.0	70	130			
BROMOFORM	10		10.13	ug/L	101.0	70	130			
BROMOMETHANE	9.9		10.38	ug/L	105.0	70	130			
CARBON DISULFIDE	10		11.03	ug/L	110.0	70	130			
CARBON TETRACHLORIDE	10		10.99	ug/L	110.0	70	130			
CHLOROBENZENE	10		10.22	ug/L	102.0	70	130			
CHLOROETHANE	10.1		10.66	ug/L	106.0	70	130			
CHLOROFORM	10		10.6	ug/L	106.0	70	130			
CHLOROMETHANE	9.9		10.53	ug/L	106.0	70	130			

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

CIS-1,2-DICHLOROETHENE	10	10.79	ug/L	108.0	70	130
CIS-1,3-DICHLOROPROPENE	10	10.42	ug/L	104.0	70	130
DIBROMOCHLOROMETHANE	10	9.98	ug/L	100.0	70	130
DIBROMOMETHANE	10	10.236	ug/L	102.0	70	130
DICHLORODIFLUOROMETHANE	9.9	10.77	ug/L	108.0	70	130
ETHYLBENZENE	10	10.24	ug/L	102.0	70	130
IODOMETHANE	10	10.68	ug/L	107.0	70	130
M P XYLENE	19.9	20.67	ug/L	104.0	70	130
METHYLENE CHLORIDE	10	10.39	ug/L	104.0	70	130
O XYLENE	9.9	10.2	ug/L	103.0	70	130
STYRENE	10	10.5	ug/L	105.0	70	130
TETRACHLOROETHENE	10	10.31	ug/L	103.0	71	130
TOLUENE	10	10.28	ug/L	103.0	70	130
TRANS-1,2-DICHLOROETHENE	10	10.77	ug/L	108.0	70	130
TRANS-1,3-DICHLOROPROPENE	10	9.93	ug/L	99.0	70	130
TRANS-1,4-DICHLORO-2-BUTENE	10	10.14	ug/L	102.0	70	130
TRICHLOROETHENE	10	10.32	ug/L	103.0	71	130
TRICHLOROFLUOROMETHANE	10.1	10.57	ug/L	104.0	70	130
VINYL ACETATE	10.1	12.64	ug/L	126.0	70	130
VINYL CHLORIDE	9.9	10.912	ug/L	110.0	70	130
BROMOFLUOROBENZENE (surr)			%	100.0	70	130
DIBROMOFLUOROMETHANE (surr)			%	102.6	70	130
TOLUENE-D8 (surr)			%	98.1	70	130

LCSWD **Sample ID: WG600356LCSWD** **PCN/SCN: V241028-1-CCVL** **Analyzed: 10/30/24 12:10**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE	10		9.93	ug/L	99.0	70	130	1	20	
1,1,1-TRICHLOROETHANE	10.1		10.52	ug/L	104.0	70	130	5	20	
1,1,2,2-TETRACHLOROETHANE	10		10.006	ug/L	100.0	70	130	1	20	
1,1,2-TRICHLOROETHANE	10		9.99	ug/L	100.0	70	130	3	20	
1,1-DICHLOROETHANE	10		10.35	ug/L	104.0	70	130	4	20	
1,1-DICHLOROETHENE	10		10.59	ug/L	106.0	70	130	6	20	
1,2,3-TRICHLOROPROPANE	10		9.73	ug/L	97.0	70	130	3	20	
1,2-DIBROMO-3-CHLOROPROPANE	10		9.76	ug/L	98.0	70	130	1	20	
1,2-DIBROMOETHANE	10		9.681	ug/L	97.0	70	130	1	20	
1,2-DICHLOROBENZENE	10		10	ug/L	100.0	70	130	1	20	
1,2-DICHLOROETHANE	10		10.45	ug/L	104.0	70	130	0	20	
1,2-DICHLOROPROPANE	10		10.12	ug/L	101.0	70	130	1	20	
1,3-DICHLOROBENZENE	10		9.81	ug/L	99.0	70	130	3	20	
1,4-DICHLOROBENZENE	10.1		9.76	ug/L	97.0	70	130	3	20	
2-BUTANONE	20		20.75	ug/L	104.0	70	130	4	20	
2-HEXANONE	20		20.72	ug/L	103.0	70	130	0	20	
4-METHYL-2-PENTANONE	20		20.44	ug/L	102.0	70	130	3	20	
ACETONE	20		20.3	ug/L	102.0	70	130	9	20	
ACRYLONITRILE	10		10.644	ug/L	106.0	70	130	4	20	
BENZENE	10		10.38	ug/L	104.0	70	130	2	20	
BROMOCHLOROMETHANE	10		10.39	ug/L	104.0	70	130	2	20	
BROMODICHLOROMETHANE	10		10.02	ug/L	100.0	70	130	3	20	
BROMOFORM	10		9.9	ug/L	99.0	70	130	2	20	

Twin Landfill Corporation ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

BROMOMETHANE	9.9	10.48	ug/L	106.0	70	130	1	20
CARBON DISULFIDE	10	10.39	ug/L	104.0	70	130	6	20
CARBON TETRACHLORIDE	10	10.86	ug/L	109.0	70	130	1	20
CHLOROBENZENE	10	9.85	ug/L	99.0	70	130	4	20
CHLOROETHANE	10.1	10.59	ug/L	105.0	70	130	1	20
CHLOROFORM	10	10.24	ug/L	103.0	70	130	3	20
CHLOROMETHANE	9.9	9.91	ug/L	100.0	70	130	6	20
CIS-1,2-DICHLOROETHENE	10	10.27	ug/L	103.0	70	130	5	20
CIS-1,3-DICHLOROPROPENE	10	10.36	ug/L	103.0	70	130	1	20
DIBROMOCHLOROMETHANE	10	9.89	ug/L	99.0	70	130	1	20
DIBROMOMETHANE	10	10.078	ug/L	101.0	70	130	2	20
DICHLORODIFLUOROMETHANE	9.9	10.26	ug/L	103.0	70	130	5	20
ETHYLBENZENE	10	9.98	ug/L	100.0	70	130	3	20
IODOMETHANE	10	10.5	ug/L	105.0	70	130	2	20
M P XYLENE	19.9	19.99	ug/L	100.0	70	130	3	20
METHYLENE CHLORIDE	10	10.06	ug/L	101.0	70	130	3	20
O XYLENE	9.9	10.12	ug/L	102.0	70	130	1	20
STYRENE	10	10.26	ug/L	103.0	70	130	2	20
TETRACHLOROETHENE	10	10.01	ug/L	100.0	70	130	3	20
TOLUENE	10	9.99	ug/L	100.0	70	130	3	20
TRANS-1,2-DICHLOROETHENE	10	10.31	ug/L	103.0	70	130	4	20
TRANS-1,3-DICHLOROPROPENE	10	9.76	ug/L	97.0	70	130	2	20
TRANS-1,4-DICHLORO-2-BUTENE	10	10.13	ug/L	101.0	70	130	0	20
TRICHLOROETHENE	10	9.98	ug/L	100.0	71	130	3	20
TRICHLOROFLUOROMETHANE	10.1	10.35	ug/L	102.0	70	130	2	20
VINYL ACETATE	10.1	12.09	ug/L	120.0	70	130	4	20
VINYL CHLORIDE	9.9	10.574	ug/L	107.0	70	130	3	20
BROMOFLUOROBENZENE (surr)			%	98.9	70	130		
DIBROMOFLUOROMETHANE (surr)			%	101.8	70	130		
TOLUENE-D8 (surr)			%	97.6	70	130		

PBW **Sample ID: WG600356PBW** **Analyzed: 10/30/24 13:35**

Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE			U	ug/L		-1	1			
1,1,1-TRICHLOROETHANE			U	ug/L		-2	2			
1,1,2,2-TETRACHLOROETHANE			U	ug/L		-.01	.01			
1,1,2-TRICHLOROETHANE			U	ug/L		-1	1			
1,1-DICHLOROETHANE			U	ug/L		-1	1			
1,1-DICHLOROETHENE			U	ug/L		-1	1			
1,2,3-TRICHLOROPROPANE			U	ug/L		-1	1			
1,2-DIBROMO-3-CHLOROPROPANE			U	ug/L		-1	1			
1,2-DIBROMOETHANE			U	ug/L		-.01	.01			
1,2-DICHLOROBENZENE			U	ug/L		-1	1			
1,2-DICHLOROETHANE			U	ug/L		-1	1			
1,2-DICHLOROPROPANE			U	ug/L		-1	1			
1,3-DICHLOROBENZENE			U	ug/L		-1	1			
1,4-DICHLOROBENZENE			U	ug/L		-1	1			
2-BUTANONE			U	ug/L		-2	2			
2-HEXANONE			U	ug/L		-2	2			

Twin Landfill Corporation

ACZ Project ID: ***L91136***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

4-METHYL-2-PENTANONE	U	ug/L		-2	2
ACETONE	U	ug/L		-10	10
ACRYLONITRILE	U	ug/L		-.05	.05
BENZENE	U	ug/L		-1	1
BROMOCHLOROMETHANE	U	ug/L		-1	1
BROMODICHLOROMETHANE	U	ug/L		-1	1
BROMOFORM	U	ug/L		-1	1
BROMOMETHANE	U	ug/L		-2	2
CARBON DISULFIDE	U	ug/L		-1	1
CARBON TETRACHLORIDE	U	ug/L		-1	1
CHLOROBENZENE	U	ug/L		-1	1
CHLOROETHANE	U	ug/L		-2	2
CHLOROFORM	U	ug/L		-1	1
CHLOROMETHANE	U	ug/L		-1	1
CIS-1,2-DICHLOROETHENE	U	ug/L		-1	1
CIS-1,3-DICHLOROPROPENE	U	ug/L		-1	1
DIBROMOCHLOROMETHANE	U	ug/L		-1	1
DIBROMOMETHANE	U	ug/L		-.01	.01
DICHLORODIFLUOROMETHANE	U	ug/L		-1	1
ETHYLBENZENE	U	ug/L		-1	1
IODOMETHANE	U	ug/L		-1	1
M P XYLENE	U	ug/L		-2	2
METHYLENE CHLORIDE	U	ug/L		-1	1
O XYLENE	U	ug/L		-1	1
STYRENE	U	ug/L		-1	1
TETRACHLOROETHENE	U	ug/L		-1	1
TOLUENE	U	ug/L		-1	1
TRANS-1,2-DICHLOROETHENE	U	ug/L		-1	1
TRANS-1,3-DICHLOROPROPENE	U	ug/L		-1	1
TRANS-1,4-DICHLORO-2-BUTENE	U	ug/L		-1	1
TRICHLOROETHENE	U	ug/L		-1	1
TRICHLOROFLUOROMETHANE	U	ug/L		-1	1
VINYL ACETATE	U	ug/L		-2	2
VINYL CHLORIDE	U	ug/L		-.05	.05
BROMOFLUOROBENZENE (surr)		%	99.7	70	130
DIBROMOFLUOROMETHANE (surr)		%	102.0	70	130
TOLUENE-D8 (surr)		%	96.3	70	130

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L91136-01	WG600356	1,1,1,2-Tetrachloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,1-Trichloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2,2-Tetrachloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2-Trichloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethene	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2,3-Trichloropropane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromo-3-chloropropane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromoethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichlorobenzene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloropropane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,4-Dichlorobenzene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Butanone	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Hexanone	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
		4-Methyl-2-Pentanone	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acetone	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acrylonitrile	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Benzene	EPA 8260C/D	Q2	Sample received with head space.
		Bromochloromethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromodichloromethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromoform	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromomethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Disulfide	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Tetrachloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chlorobenzene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroform	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloromethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		cis-1,2-Dichloroethene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		cis-1,3-Dichloropropene	EPA 8260C/D	Q2	Sample received with head space.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromochloromethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromomethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Ethylbenzene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Iodomethane	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		m p Xylene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Methylene Chloride	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		o Xylene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Styrene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Tetrachloroethene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Toluene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,2-Dichloroethene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,3-Dichloropropene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,4-Dichloro-2-butene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichloroethene	EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichlorofluoromethane	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Vinyl Acetate	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 8260C/D	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		Vinyl Chloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	Q2	Sample received with head space.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L91136-02	WG600356	1,1,1,2-Tetrachloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,1-Trichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2,2-Tetrachloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2-Trichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethene	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2,3-Trichloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromo-3-chloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromoethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,4-Dichlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Butanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Hexanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
		4-Methyl-2-Pentanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acetone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acrylonitrile	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromochloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromodichloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromoform	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Disulfide	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Tetrachloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroform	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		cis-1,2-Dichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		cis-1,3-Dichloropropene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromochloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Ethylbenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Iodomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		m p Xylene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Methylene Chloride	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		o Xylene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Styrene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Tetrachloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Toluene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,2-Dichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,3-Dichloropropene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,4-Dichloro-2-butene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichlorofluoromethane	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Vinyl Acetate	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 8260C/D	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		Vinyl Chloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L91136-03	WG600356	1,1,1,2-Tetrachloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,1-Trichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2,2-Tetrachloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1,2-Trichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,1-Dichloroethene	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2,3-Trichloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromo-3-chloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dibromoethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,2-Dichloropropane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		1,4-Dichlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Butanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		2-Hexanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		4-Methyl-2-Pentanone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acetone	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Acrylonitrile	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromochloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromodichloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromoform	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Bromomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Disulfide	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Carbon Tetrachloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chlorobenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloroform	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Chloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		cis-1,2-Dichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
		cis-1,3-Dichloropropene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromochloromethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Dibromomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Ethylbenzene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Iodomethane	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		m p Xylene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Methylene Chloride	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		o Xylene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Styrene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Tetrachloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Toluene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,2-Dichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,3-Dichloropropene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		trans-1,4-Dichloro-2-butene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichloroethene	EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Trichlorofluoromethane	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Vinyl Acetate	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			EPA 8260C/D	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		Vinyl Chloride	EPA 8260C/D	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			EPA 8260C/D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Twin Landfill Corporation ACZ Project ID: ***L91136***

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Silver, total	EPA 6020B

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Twin Landfill Corporation

ACZ Project ID: L91136
Date Received: 10/24/2024 13:58
Received By:
Date Printed: 10/24/2024

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?	X		
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?	X		
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA43307	-0.6	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Sample Receipt

Twin Landfill Corporation

ACZ Project ID:	L91136
Date Received:	10/24/2024 13:58
Received By:	
Date Printed:	10/24/2024

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ LABORATORIES | Accredited Environmental Testing | 2773 Downhill Drive, Steamboat Springs, CO 80487, (970) 879-6590 | L91136

CHAIN of CUSTODY

Report to:

Name: David Keating | Address: 2650 CR 205, Steamboat
Company: Twin enviro |
E-mail: DKeating@Apexwaste.com | Telephone: 970 879 6985

Copy of Report to:

Name: Rebecca Lindeman | E-mail: rebecca@jordonenvironmental.com
Company: Jordon | Telephone: 303 517 8149

Invoice to:

Name: Jen Oliver | Address: 2650 CR 205, Steamboat
Company: Twin enviro |
E-mail: Jen oliver@Apexwaste.com | Telephone: 970 879 6985

Copy of Invoice to:

Name: | Address:
Company: |
E-mail: | Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ☑ NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes ☐ No ☑

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: David Keating | **Sampler's Site Information** | **State** Co | **Zip code** 80487 | **Time Zone** Mountain

***Sampler's Signature:** [signature]

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: Leachate - waste water
PO#:
Reporting state for compliance testing:
Check box if samples include NRC licensed material? ☐

ANALYSES REQUESTED (attach list or use quote number)

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	1 A	1 B							
MW 1	10/24/24 9:55		3	✓	✓							
Tank 5/6	10/24/24 9:30		3	✓	✓							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	10/24 13:53	[signature]	10/24/24 13:53

Appendix E

Weekly Mod 1
Leachate Sump
Inspection Forms

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

INSPECTED BY: David Keasling

DATES COMPLETED: July 2024

MILNER LANDFILL

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	LEACHATE LEVEL (FT) BEFORE PUMPING	LEACHATE LEVEL (FT) AFTER PUMPING	DEFICIENCY	REPAIR	COMMENTS
7/1/24 DK	2"	N/A	None	None	
7/8/24 DK	0.5"	N/A	None	None	
7/15/24 DK	2"	N/A	None	None	
7/19/24 DK	1"	N/A	None	None	
7/22/24 DK	1.5"	N/A	None	None	
7/29/24 DK	1"	N/A	None	None	

INSPECTORS SIGNATURE [signature] DATE 7/29/24

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

INSPECTED BY: David Keating

DATES COMPLETED: August 2024

MILNER LANDFILL

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	LEACHATE LEVEL (FT) BEFORE PUMPING	LEACHATE LEVEL (FT) AFTER PUMPING	DEFICIENCY	REPAIR	COMMENTS
8/5/24 DK	0.5"	N/A	None	None	
8/12/24 DK	0.25"	N/A	None	None	
8/19/24 DK	0.25"	N/A	None	None	
8/23/24	1.0"	N/A	None	None	
8/27/24	5.0"	N/A	None	None	

INSPECTORS SIGNATURE David Keating DATE 8/27/24

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

INSPECTED BY: David Keating

DATES COMPLETED: September 2024

MILNER LANDFILL

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	LEACHATE LEVEL (FT) BEFORE PUMPING	LEACHATE LEVEL (FT) AFTER PUMPING	DEFICIENCY	REPAIR	COMMENTS
9/3/24 DK	1"	N/A	None	None	
9/9/24 DK	0.5"	N/A	None	None	
9/16/24 DK	1"	N/A	None	None	
9/23/24 DK	1.5"	N/A	None	None	
9/30/24 DK	3"	N/A	None	None	

INSPECTORS SIGNATURE [signature] DATE 9/30/24

WEEKLY MODULE 1/PHASE 2 LEACHATE SUMP INSPECTION FORM

INSPECTED BY: David Keating DATES COMPLETED: October 2024	MILNER LANDFILL WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	**LEACHATE LEVEL (FT) BEFORE PUMPING**	**LEACHATE LEVEL (FT) AFTER PUMPING**	**DEFICIENCY**	**REPAIR**	**COMMENTS**
10/18/24 DK	2"	NA	None	None	
10/14/24 DK	Dry	NA	None	None	
10/18/24 DK	1"	NA	None	None	
10/21/24 DK	0.25"	NA	None	None	
10/24/24 DK	2"	NA	None	None	
10/28/24 DK	2"	NA	None	None	

INSPECTORS SIGNATURE  DATE 10/28/24

Twin Enviro
APEX WASTE SOLUTIONS 970-879-6985
www.apexwasteco.com

WEEKLY MODULE 1/PHASE 2 LEACHATE SUMP INSPECTION FORM

INSPECTED BY: David Keating DATES COMPLETED: November 2024	MILNER LANDFILL WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	**LEACHATE LEVEL (FT) BEFORE PUMPING**	**LEACHATE LEVEL (FT) AFTER PUMPING**	**DEFICIENCY**	**REPAIR**	**COMMENTS**
11/4/2024 DK	9 inches	N/A	None	None	
11/12/24 DK	4 inches	N/A	None	None	
11/22/24 DK	1 inch	N/A	None	None	
11/25/24 DK	1.5 inches	N/A	None	None	
		N/A	None	None	
		N/A	None	None	

INSPECTORS SIGNATURE  DATE 11/25/2024

Twin Enviro
APEX WASTE SOLUTIONS 970-879-6985
www.apexwasteco.com

WEEKLY MODULE 1/PHASE 2 LEACHATE SUMP INSPECTION FORM

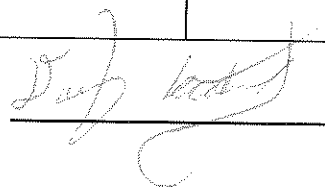
INSPECTED BY: David Keating

DATES COMPLETED: 12/6-12/27 2024

MILNER LANDFILL

WEEKLY MODULE 1 LEACHATE SUMP INSPECTION FORM

SUMP INSPECTION					
DATE/INITIALS	LEACHATE LEVEL (FT) BEFORE PUMPING	LEACHATE LEVEL (FT) AFTER PUMPING	DEFICIENCY	REPAIR	COMMENTS
DK 12/6/24	0.25"	na	none	none	
DK 12/13/24	dry	na	none	none	
DK 12/17/24	0.25"	na	none	none	
DK 12/20/24	2"	na	none	none	
DK 12/27/24	4.5"	na	none	none	

INSPECTORS SIGNATURE  DATE 12/27/24

Appendix F

Leachate Pond Measurement Logs

JULY – Dec

leachate pond

ALL measurements are From top tape down

7/5/23	3' 1"
7/10/23	2' 8"
7/17/23	2' 1"
7/31/23	2' 4"
8/21/23	2' 8"
8/28/23	2' 6"
9/5/23	2' 6"
9/18/23	3' 10"
10/24/23	2' 6"
10/27/23	2' 9"
10/30/23	2' 3"
11/3/23	2'
11/6/23	2' 2"
11/10/23	3' 6"
11/13/23	3' 6"
11/20/23	3' 1"
11/27/23	3' 3"
12/1/23	3' 4"
12/4/23	3'
12/8/23	2' 8"
12/11/23	2' 7"
12/18/23	2' 10"
12/22/23	2' 9"
12/29/23	2' 3"