

DATA PACKAGE

GENERAL CHEMISTRY METALS GC SEMI-VOLATILES

PROJECT NAME : FRESH KILLS LANDFILL LEACHATE TREATMENT PLANT

INFRAMARK

310 West Service Road

Staten Island, NY - 10312

Phone No: 718-227-6333

ORDER ID: N3259

ATTENTION : Kevin Russell







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Cover Page

- Order ID: N3259
- Project ID : Fresh Kills Landfill Leachate Treatment Plant

Client : Inframark

Lab Sample Number

N3259-01 N3259-02 BI-WEEKLY-INFLUENT BI-WEEKLY-INFLUENT

Client Sample Number

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

Date: 6/22/2022

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

2.1

Inframark Project Name: Fresh Kills Landfill Leachate Treatment Plant Project # N/A Chemtech Project # N3259 Test Name: PESTICIDE Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/08/2022.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Anions Group1, COD, Metals Group3, Oil and Grease, PESTICIDE Group1 and Phosphorus-Total. This data package contains results for PESTICIDE Group1.

C. Analytical Techniques:

The analysis was performed on instrument ECD_L. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017-11 The rear column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. .The analysis of PESTICIDE Group1s was based on method 608.3 and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

BI-WEEKLY-INFLUENT [Decachlorobiphenyl(1) - 37%, Decachlorobiphenyl(2) - 25%],

BI-WEEKLY-INFLUENTRE [Decachlorobiphenyl(1) - 53% and Decachlorobiphenyl(2) - 44%],

the failure sample in surrogates was reanalyzed to confirm the failure as per method and reported.

The Retention Times were acceptable for all samples.

The RPD for {PB145434BSD} with File ID: PL075687.D met criteria except for delta-BHC[33%],due to difference in results of BS-BSD.

The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .





E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature_____



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CASE NARRATIVE

22

Inframark Project Name: Fresh Kills Landfill Leachate Treatment Plant Project # N/A Chemtech Project # N3259 Test Name: Metals Group3

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/08/2022.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Anions Group1, COD, Metals Group3, Oil and Grease, PESTICIDE Group1 and Phosphorus-Total. This data package contains results for Metals Group3.

C. Analytical Techniques:

The analysis and digestion of Metals Group3 was based on method 200.7.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample BI-WEEKLY-INFLUENT was diluted due to high concentrations for Iron.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____



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CASE NARRATIVE

2.3

Inframark Project Name: Fresh Kills Landfill Leachate Treatment Plant Project # N/A Chemtech Project # N3259 Test Name: Oil and Grease,Phosphorus-Total,COD,Anions Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/08/2022.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Anions Group1, COD, Metals Group3, Oil and Grease, PESTICIDE Group1 and Phosphorus-Total. This data package contains results for Oil and Grease, Phosphorus-Total, COD, Anions Group1.

C. Analytical Techniques:

The analysis of Oil and Grease was based on method 1664A, The analysis of Anions Group1 was based on method 300.0, The analysis of Phosphorus-Total was based on method 365.3 and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:

The Holding Times were met for all analysis. Sample BI-WEEKLY-INFLUENT was diluted due to high concentrations for Phosphorus, Total, and Chloride. The Blank Spike met requirements for all samples. The Duplicate analysis met criteria for all samples. The Matrix Spike analysis met criteria for all samples. The Matrix Spike Duplicate (POOL-WATERMSD) analysis met criteria for all samples except for Chloride due to matrix interferences. The Blank analysis did not indicate the presence of lab contamination. The Calibration met the requirements.

E. Additional Comments:

N3259-01 was analyzed with 10X dilution for COD and Chloride due to brown matrix and client history.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____



DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).				
U	Indicates the analyte was analyzed for, but not detected.				
ND	Indicates the analyte was analyzed for, but not detected				
Ε	Indicates the reported value is estimated because of the presence of interference				
Μ	Indicates Duplicate injection precision not met.				
Ν	Indicates the spiked sample recovery is not within control limits.				
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).				
*	Indicates that the duplicate analysis is not within control limits.				
+	Indicates the correlation coefficient for the MSA is less than 0.995.				
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.				
M OR	 MethoU qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. 				
Q	Indicates the LCS did not meet the control limits requirements				
Н	Sample Analysis Out Of Hold Time				



DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	 Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
В	Indicates the analyte was found in the blank as well as the sample report as "12 B".
Ε	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: N3259

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory	
Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u>✓</u>
Does the case narrative summarize all QC failure?	
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature:

SOHIL JODHANI

Date:

Completed



Hit Summary Sheet SW-846

SDG No.: Client:	N3259 Inframark			259 Fresh Kills Land	fill Leachate Treatme
Sample ID Client ID : N3259-01	Client ID BI-WEEKLY-INFLUENT BI-WEEKLY-INFLUI WATER	Parameter 4,4-DDD Total Concentration:	Concentration C 0.0071 0.01	2 MDL 0.00050	RDL Units 0.0050 ug/L
Client ID : N3259-01RE	BI-WEEKLY-INFLUENTRE BI-WEEKLY-INFLUI WATER	4,4-DDD Total Concentration:	0.0075 0.01	0.00050	0.0050 ug/L

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<u>SAMPLE</u> <u>DATA</u>



B C D

Report of Analysis

Client:	Inframark				Date Collected:	06/08/22		
Project:	Fresh Kills Landf	ill Leachate Treatr	nent Plant		Date Received:	06/08/22		
Client Sample ID:	BI-WEEKLY-INI	FLUENT			SDG No.:	N3259		
Lab Sample ID:	N3259-01				Matrix:	WATER		
Analytical Method					% Moisture:	100	Decanted:	
-		_						
Sample Wt/Vol:	1000 Units:	: mL			Final Vol:	1000	uL	
Soil Aliquot Vol:		uL			Test:	PESTICIDE	Group1	
Extraction Type:					Injection Volume :			
GPC Factor :	1.0	PH :						
File ID/Qc Batch:	Dilution:	Prep I	Date		Date Analyzed	Prep	Batch ID	
PL075671.D	1	06/09	/22 08:50		06/09/22 16:27	PB1	45434	
CAGN		C	0 110	MDI		100/0	DOI	TT •4
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / C	RQL	Units
	Parameter	Conc.	Qualifier	MDL		LOQ / C	RQL	Units
CAS Number TARGETS 319-84-6	Parameter alpha-BHC	Conc. 0.0050	Qualifier U	MDL 0.00060			RQL 0.0050	Units ug/L
TARGETS							_	
TARGETS 319-84-6	alpha-BHC	0.0050	U	0.00060		_	0.0050	ug/L
TARGETS 319-84-6 76-44-8	alpha-BHC Heptachlor	0.0050 0.0050	U U	0.00060 0.00060		-	0.0050 0.0050	ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7	alpha-BHC Heptachlor beta-BHC	0.0050 0.0050 0.0050	U U U	0.00060 0.00060 0.00080			0.0050 0.0050 0.0050	ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8	alpha-BHC Heptachlor beta-BHC delta-BHC	0.0050 0.0050 0.0050 0.0050	U U U U	0.00060 0.00060 0.00080 0.0013			0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE	0.0050 0.0050 0.0050 0.0050 0.0050	U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0071	U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT	$\begin{array}{c} 0.0050\\ 0.0050\\ 0.0050\\ 0.0050\\ 0.0050\\ 0.0050\\ 0.0071\\ 0.0050\end{array}$	U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3 57-74-9 8001-35-2	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT Chlordane	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0071 0.0050 0.050	U U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060 0.011			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3 57-74-9	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT Chlordane	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0071 0.0050 0.050	U U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060 0.011			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L

Comments:

U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	N = Presumptive Evidence of a Compound
LOD = Limit of Detection	* = Values outside of QC limits
E = Value Exceeds Calibration Range	D = Dilution
P = Indicates > 25% difference for detected	S = Indicates estimated value where valid five-point calibration
concentrations between the two GC columns	was not performed prior to analyte detection in sample.
Q = indicates LCS control criteria did not meet requirements	() = Laboratory InHouse Limit

M = MS/MSD acceptance criteria did not meet requirements

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Report	of Analysis
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Client:	Inframark				Date Collected:	06/08/22		
Project:	Fresh Kills Landfill Leachate Treatment Plant			Date Received:	06/08/22			
Client Sample ID:	BI-WEEKLY-IN	BI-WEEKLY-INFLUENTRE			SDG No.:	N3259		
Lab Sample ID:	N3259-01RE				Matrix:	WATER		
Analytical Method	608.3				% Moisture:	100	Decanted:	
Sample Wt/Vol:	1000 Units	: mL			Final Vol:	1000	uL	
-	1000 Units							
Soil Aliquot Vol:		uL			Test:	PESTICIDE	Group1	
Extraction Type:					Injection Volume :			
GPC Factor :	1.0	PH :						
File ID/Qc Batch:	Dilution:	Prep I	Date		Date Analyzed	Prej	Batch ID	
PL075684.D	1	06/09/	/22 08:50		06/10/22 15:15	PB1	45434	
CAS Number	Parameter	Conc.	Qualifier	MDL		LOQ / C	RQL	Units
	Parameter	Conc.	Qualifier	MDL		LOQ / C	RQL	Units
CAS Number TARGETS 319-84-6	Parameter alpha-BHC	Conc. 0.0050	Qualifier U	MDL 0.00060			RQL	Units ug/L
TARGETS			-					
TARGETS 319-84-6	alpha-BHC	0.0050	U	0.00060			0.0050	ug/L
TARGETS 319-84-6 76-44-8	alpha-BHC Heptachlor	0.0050 0.0050	U U	0.00060 0.00060			0.0050 0.0050	ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7	alpha-BHC Heptachlor beta-BHC	0.0050 0.0050 0.0050	U U U	0.00060 0.00060 0.00080			0.0050 0.0050 0.0050	ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8	alpha-BHC Heptachlor beta-BHC delta-BHC	0.0050 0.0050 0.0050 0.0050	U U U U	0.00060 0.00060 0.00080 0.0013			0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE	0.0050 0.0050 0.0050 0.0050 0.0050	U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0075	U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0075 0.0050	U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3 57-74-9	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT Chlordane	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0075 0.0050 0.0050	U U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060 0.011			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L
TARGETS 319-84-6 76-44-8 319-85-7 319-86-8 72-55-9 72-20-8 72-54-8 50-29-3 57-74-9 8001-35-2	alpha-BHC Heptachlor beta-BHC delta-BHC 4,4-DDE Endrin 4,4-DDD 4,4-DDT Chlordane	0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0075 0.0050 0.0050	U U U U U U U U	0.00060 0.00060 0.00080 0.0013 0.00050 0.00050 0.00050 0.00060 0.011			0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L

Comments:

U = Not Detected J = Estimated Value LOQ = Limit of Quantitation B = Analyte Found in Associated Method Blank MDL = Method Detection Limit N = Presumptive Evidence of a Compound LOD = Limit of Detection * = Values outside of QC limits E = Value Exceeds Calibration Range D = Dilution P = Indicates > 25% difference for detected S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample. concentrations between the two GC columns Q = indicates LCS control criteria did not meet requirements () = Laboratory InHouse Limit M = MS/MSD acceptance criteria did not meet requirements

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	N3259 Inframark Kevin Russell			OrderDate: Project: Location:	6/8/2022 12:24 Fresh Kills Land N11		reatment Plant	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
N3259-01	BI-WEEKLY-INFLUENT	WATER	PESTICIDE Group1	608.3	06/08/22	06/09/22	06/09/22	06/08/22
N3259-01R		WATER			06/08/22			06/08/22
	RE		PESTICIDE Group1	608.3		06/09/22	06/10/22	

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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit	Summary Sheet
	SW-846

			Hit Summary SW-84					
SDG No.: Client:	N3259 Inframark			Order ID: Project ID		N3259 Fresh Kills Land	fill Leachate Treatm	nent Pla
Sample ID								
Client ID :	Client ID BI-WEEKLY-INFLUENT	Matrix	Parameter	Concentration	С	MDL	RDL	Units
-		Matrix Water	Parameter Aluminum	Concentration 111.000	С	MDL 15.0	RDL 50.0	Units ug/L
Client ID :	BI-WEEKLY-INFLUENT				С			
Client ID : N3259-01	BI-WEEKLY-INFLUENT BI-WEEKLY-INFLUENT	Water	Aluminum	111.000	C D	15.0	50.0	ug/L





<u>SAMPLE</u> <u>DATA</u>

Report of Analysis

- 1					A
	Client:	Inframark	Date Collected:	06/08/22	B
	Project:	Fresh Kills Landfill Leachate Treatment Plant	Date Received:	06/08/22	
	Client Sample ID:	BI-WEEKLY-INFLUENT	SDG No.:	N3259	С
	Lab Sample ID:	N3259-01	Matrix:	Water	D
	Level (low/med):	low	% Solid:	0	

Cas	Parameter	Conc.	Qua	a. D	F MDL	L	OQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	111		1	15.0		50.0	ug/L	06/09/22 09:10	06/10/22 19:09	EPA 200.7
7440-38-2	Arsenic	16.4		1	3.08		10.0	ug/L	06/09/22 09:10	06/10/22 19:09	EPA 200.7
7440-50-8	Copper	10.0	U	1	4.99		10.0	ug/L	06/09/22 09:10	06/10/22 19:09	EPA 200.7
7439-89-6	Iron	13500	D	10	132		500	ug/L	06/09/22 09:10	06/14/22 16:41	EPA 200.7
7440-66-6	Zinc	7.24	J	1	2.33		20.0	ug/L	06/09/22 09:10	06/10/22 19:09	EPA 200.7

Color Before:	Yellow	Clarity Before:	Cloudy	Texture:
Color After:	Yellow	Clarity After:	Cloudy	Artifacts:
Comments:	Metals Group3			
U = Not Detect LOQ = Limit o				J = Estimated Value B = Analyte Found in Associated Method Blank
MDL = Method	d Detection Limit			* = indicates the duplicate analysis is not within control limits.
LOD = Limit o	of Detection			E = Indicates the reported value is estimated because of the presence
D = Dilution				of interference.
Q = indicates L	CS control criteria did not meet i	requirements		OR = Over Range
				N =Spiked sample recovery not within control limits

18 of 27



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	N3259 Inframark Kevin Russell			OrderDate: Project: Location:	6/8/2022 12:24 Fresh Kills Land N11		reatment Plant	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
N3259-01	BI-WEEKLY-INFLUENT	Water			06/08/22			06/08/22
			Metals Group3	200.7		06/09/22	06/10/22	
			Metals Group3	200.7		06/09/22	06/14/22	

6





<u>SAMPLE</u> <u>DATA</u>



1.27

D

OR 1

10

24.0

0.010

COD

Phosphorus, Total

7

Report of Analysis

Client: Project:	Inframark Fresh Kil	ĸ lls Landfill Leachate	Treatment Plant		Date Collected:	06/08/22 06/08/22		В
Client Sample ID:		KLY-INFLUENT	i i outilioni i funt	_	SDG No.:	N3259		C
Lab Sample ID:	N3259-0	1		I	Matrix:	WATER		
				Q	% Solid:	0		
Parameter	Conc. Qua	n. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Chloride	1480 OF	R 10 0.97	6.00	mg/L		06/09/22 13:2	3 300.0	

mg/L

mg/L

06/09/22 09:45

06/10/22 14:17

06/09/22 14:22 365.3

SM5220 D

100

0.050

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

^{* =} indicates the duplicate analysis is not within control limits.



Report of Analysis

Client:	Infra	amark					Date Collected:	06/08/22 0	7:00	
Project:	Fres	h Kills	Land	fill Leachate	Treatment Plant		Date Received:	06/08/22		
Client Sample ID:	BI-V	VEEKI	LY-IN	FLUENTDI	_		SDG No.:	N3259		
Lab Sample ID:	N32	59-01E	DL				Matrix:	WATER		
							% Solid:	0		
Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Chloride	1140	D	300	29.1	180	mg/L		06/09/22 13:53	300.0	
Phosphorus, Total	4.17	D	5	0.048	0.25	mg/L	06/09/22 09:45	06/09/22 14:26	365.3	

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits





Report of Analysis

Client: Project:	Inframarl Fresh Kil	ĸ lls Landfill Leachate	Treatment Plant		Date Collected:	06/08/22 06/08/22	08:55	В
Client Sample ID:		KLY-INFLUENT	ricament i fallt		SDG No.:	N3259		С
Lab Sample ID:	N3259-02	2			Matrix:	WATER		
					% Solid:	0		
Parameter	Conc. Qua	n. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Oil and Grease	1.40 J	1 0.62	5.00	mg/L		06/08/22 16:1:	5 1664A	

Comments:

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
- Q = indicates LCS control criteria did not meet requirements
- H = Sample Analysis Out Of Hold Time

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- * = indicates the duplicate analysis is not within control limits.
- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits



Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: Client: Contact:	N3259 Inframark Kevin Russell			OrderDate: Project: Location:	6/8/2022 12:24 Fresh Kills Lan N11		reatment Plant	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
N3259-01	BI-WEEKLY-INFLUENT	WATER			06/08/22 07:00			06/08/22
			Anions Group1	300.0			06/09/22 13:23	
			COD	SM5220 D			06/10/22 14:17	
			Phosphorus-Total	365.3		06/09/22	06/09/22 14:22	
N3259-01D	L BI-WEEKLY-INFLUENT DL	WATER			06/08/22 07:00			06/08/22
			Anions Group1	300.0			06/09/22 13:53	
			Phosphorus-Total	365.3		06/09/22	06/09/22 14:26	
N3259-02	BI-WEEKLY-INFLUENT	WATER			06/08/22 08:53			06/08/22
			Oil and Grease	1664A			06/08/22 16:15	

A B C



<u>SHIPPING</u> DOCUMENTS

8

EB 250		284 Sheffield Street, Mountainside, NJ 07092	Aounta	Mountainside, NJ 0	6070 LN	2	4	Chomtoch Broject Number	- Cicro	A Num	hor.		1	N	0,1 0,0 2,0	
CHAIN OF CUS	CHAIN OF CUSTODY RECORD		mtech	.net	7700				- - -					2	1	
							<u>ğ</u>	COC Number:	per:							
	CLIENT INFORMATION	PROJE	JECT	CT INFORMATION	IATION		_				B	BILLING INFORMATION	NFOR	MATI	NO	
COMPANY: Inframark	ark	PROJECT NAME: Fresh Kills Landfill Leachate Treatment Plant	sh Kills L	andfill Lea	ichate Treat	ment Plan		BILL TO: Inframark	mark					₽0	PO# 140115	
ADDRESS: 310 West Service Road	est Service Road	PROJECT #:		LOC	LOCATION:		ADDI	ADDRESS: P.O. Box 90176	O. Box (0176						
CITY: Staten Island	I STATE: NY ZIP: 10312	PROJECT MANAGER: K.	R: K. Russell	sell			CITY	CITY: Staten Island	sland					STA'	STATE: NY ZIP: 10309	
ATTENTION: Kevin Russell	1 Russell	E-MAIL: kevin.russell@inframark.com	Dinframa	k.com			ATTE	ATTENTION: K. Russell	K. Russ	lie				DHO	PHONE: (718) 227-6333	
PHONE: (718) 227-6333	-6333 FAX: (718) 227-6111	PHONE: (718) 227-6333	33	FAX	FAX: (718) 227-6111	5111				ANA	ANALYSIS					
DATA	DATA TURNAROUND INFORMATION	DATA DELIV	IVERA.	BLE IN	ERABLE INFORMATION	NOI		1	əs	s		-				
FAX: HARD COPY: EDD	DAYS* DAYS* 10 DAYS*	 RESULTS ONLY RESULTS * QC New Jersey REDUCED 	894	USEP. New You	 USEPA CLP USEPA CLP New York State ASP "B" New York State ASP "A" 	SP "B" P "A"	Phosphor COD, Tot	Al, As, Cu, Fe	senð & lið	Pesticide	Mercury Low Level	Chloride				
	* TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 40 DUSINESS DAVE	New Jersey CLP	U	D Other			-	7	e	4	5	6 7	∞	6		
		EDD Format			PDF					PRESERVATIVES	VATIV	ES			COMMENTS	
			SAMPLE TYPE		SAMPLE COLLECTION	\vdash	U	m	U	ш	۲	ш			fy Pr	tives
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	скув	DATE TIME	A # of Bottle	~	7	ę	4	5	9	œ	ი	C-H2SO4 D-NaOH E-ICE F-Other	יד <i>ב</i>
	Bi-Weekly Influent	WM	×	6/1	6/8/22 7:00 AM		-	-		1		1			# 4 by EPA 608	
- OF	Bi-Weekly Influent	WM		X 6/1	6/8/22 8:53 AM	AM			٢		2				# 5 by EPA 1631E	
97																
							_	_								
												_	_	_		
				+			_			+		_				
						-	+	_				_		_		
													<u> </u>	<u> </u>		
110	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY	CUMENTED BEI	OW E	ACH TII	ME SAMI	PLES C	HANGE	PRO	SSES	ION II	VCLU	DING	COUR	ER	DELIVERY	
RECINOUISHED BY	IN THE PATER DATENTIME RECEIVED BY	125 Conditions	Conditic MeOH e. Commer	ons of bo xtraction nts:	Conditions of bottles or coolers at receipt: Compliant MeOH extraction requires an additional 4oz. Jar for percent solid Comments:	additional	eceipt: 4oz. Jar	for perc	Compliant ercent solid		□ Non Compliant	liant	Cooler Temp	Cooler Temp	p 2.0	
RELINQUISHED BY	DATE/TIME	AB BY	Page	۵	of	SHIP	SHIPPED VIA: CLIENT: D Hand Delivered D Overnight CHEMTECH: Picked Up D Overnight	CLIENT: H:	 Hand Picked 	Delivered Up	 Overnight Overnight 	night iight			Shipment Complete	plete D NO
		WHITE - CHEMTECH COPYFOR RETURN TO CLIENT	ETURN T	O CLIEN		YELLOW - CHEMTECH COPY	EMTECH	І сору	PIN	PINK - SAMPLER COPY	PLER C	ОРҮ				Τ
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<mark>8</mark> 8.1



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255421
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-22-15