

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
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	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	Method 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
OR	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
H	Sample Analysis Out Of Hold Time

SAMPLE DATA

QC RESULT SUMMARY

RAW DATA



Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: TPH
Run Number: LB123540
Analysis Date: 01/05/2023
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: kalu
REVIEWED BY: Iwona
Extraction Date: 01/05/2023
Extraction IN Time: 08:40
Extraction OUT Time: 09:20
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Silica Gel Weight (g)	Weight After Drying (g)	Final Weight After Drying (g)	Change Weight (g)	Result in ppm
1	LB123540BL	LB123540BL	WATER	1.3	1000	100	3.1586	3.1586	3.02	3.1587	3.1587	0.0001	0.1
2	LB123540BS	LB123540BS	WATER	1.3	1000	100	3.0264	3.0264	3.01	3.0435	3.0435	0.0171	17.1
3	LB123540BSD	LB123540BSD	WATER	1.3	1000	100	3.1971	3.1971	3.03	3.2141	3.2141	0.0170	17
4	O1013-01	GRAB	WATER	1.3	1000	100	3.0331	3.0331	3.04	3.1242	3.1242	0.0911	91.1
5	O1020-01	402	WATER	1.6	1000	100	3.0322	3.0322	3.03	3.0323	3.0323	0.0001	0.1

QC Batch# LB123540Test: TPHAnalysis Date: 01/05/2023**Chemicals Used:**

Chemical Name	Chemical Lot #
HEXANE	W2969
pH Paper 0-14	M4909
Sodium Sulfate	EP2279
1:1 HCL	WP10035
Silica Gel	W2839
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP100036
LCSWD	5.00 ML	WP100037
MS/MSD	NA	NA

BALANCE CALIBRATION / OVEN Dessicator DataAnalytical Balance ID # : WC SC-6Before Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 10:41
1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:00
Bal Check Time: 08:50 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 11:15
Out Time1: 10:40

After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 12:31
1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:00
Bal Check Time: 13:05 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:00
Out Time2: 12:30

✓ 22546

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tph o1013 WorkList ID : 166311 Department : Wet-Chemistry Date : 01-05-2023 08:26:49

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample		Collect Date	Method
						Storage	Location		
01/17/2023	Water	O1013-01	TPH	✓	Conc H2SO4 to ARAM01	N11	GRAB	01/04/2023	1664A
01/11/2023	Water	O1020-01	TPH	✓	Conc H2SO4 to PSEG04	N23	402	01/04/2023	1664A

Date/Time 01-05-23 08:26
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 01-05-23 10:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

QC BATCH ID: LB123549
 BOD Water: WP100486
 Starch: W2977
 Sulfuric acid, 1N: WP100509
 POLYSEED: WP100488
 GGA: WP100487
 Chlorine Strips: W2011
 pH Strips: W2716

Analysis Date: 01/05/2023
 MANGANOUS SULFATE SOLUTION: W2913
 Alkaline Iodide Azide: W2914
 Sodium Thiosulfate, 0.025N: W2941
 NaOH, 1N: WP99896
 IncubatorID: INCUBATOR #3
 GuageID: 0511064
 Zero DO: WP100199

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	8.70	8.7	8.7
WINKLER 2	WINKLER 2	2	300	8.70	17.4	8.7	8.7

Meter Calibration1: 8.68
 Barometric Pressure1: 755 mmHg

Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)
 Winkler titrated BOD fluid DO reading1: 8.77

After Incubation

Meter Calibration2: 9.19
 Barometric Pressure2: 765 mmHg

Zero DO Reading2: 0.08 mg/L (<=0.2 Criteria)
 Winkler titrated BOD fluid DO reading2: 8.76

QC BATCH ID: LB123549

INCUBATOR TEMP IN(C): 19.8

INCUBATOR TEMP OUT(C): 19.9

TIME IN: 15:15

TIME OUT: 15:30

DATE IN: 01/05/2023

DATE OUT: 01/10/2023

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB123549BL	1	No	6.90	N/A	20.00	300	8.76	8.74	0.02	0.02	0.02	
POLYSEED	1					10	8.47	4.36	4.11	0.82	0.64	
POLYSEED	2					15	8.35	3.79	4.56	0.61		
POLYSEED	3					20	8.23	3.40	4.83	0.48		
GGA	1					6	8.65	4.42	4.23	179.5	180.67	
GGA	2					6	8.63	4.38	4.25	180.5		
GGA	3					6	8.60	4.32	4.28	182		
O1013-02	1	No	7.35	N/A	20.10	0.5	8.70	7.42	-	0	650.83	
O1013-02	2					1	8.54	5.98	2.56	576		
O1013-02	3					2	8.50	3.01	5.49	727.5		
O1013-02	4					3	8.49	1.36	7.13	649		
O1023-01	1	No	7.39	N/A	20.10	5	8.68	3.90	4.78	248.4	154.95	
O1023-01	2					20	8.61	3.87	4.74	61.5		
O1023-01	3					50	8.44	0.29	-	0		
O1023-01	4					150	7.81	0.22	-	0		
O1025-01	1	No	8.29	7.20	20.20	5	8.68	8.22	-	0	2.88	pH Adjusted
O1025-01	2					20	8.67	7.43	-	0		
O1025-01	3					50	8.66	7.41	-	0		
O1025-01	4					150	8.65	6.57	2.08	2.88		
O1041-01	1	No	8.69	7.10	20.10	0.05	8.63	7.14	-	0	5445	pH Adjusted
O1041-01	2					0.1	8.62	5.94	2.68	6120		
O1041-01	3					0.2	8.61	4.79	3.82	4770		
O1041-01	4					0.5	8.60	0.21	-	0		
O1041-01	5					1	8.59	0.19	-	0		
O1041-01DUP	1	No	8.69	7.10	20.10	0.05	8.65	7.15	-	0	5445	pH Adjusted
O1041-01DUP	2					0.1	8.63	5.96	2.67	6090		
O1041-01DUP	3					0.2	8.62	4.78	3.84	4800		
O1041-01DUP	4					0.5	8.61	0.22	-	0		
O1041-01DUP	5					1	8.60	0.20	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

WORKLIST(Hardcopy Internal Chain)

66123549

WorkList Name : bod1-4

WorkList ID : 166293

Department : Wet-Chemistry

Date : 01-04-2023 09:17:20

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/06/2023	Water	O1013-02	BOD5	Cool 4 deg C	ARAM01	N11	COMP	01/04/2023	SM5210 B
01/06/2023	Water	O1023-01	BOD5	Cool 4 deg C	INFR01	N11	QUARTERLY-INFLUENT	01/04/2023	SM5210 B
01/06/2023	Water	O1025-01	BOD5	Cool 4 deg C	INFR01	N11	QUARTERLY-OUTFALL-002	01/04/2023	SM5210 B
01/07/2023	Water	O1041-01	BOD5	Cool 4 deg C	MAJO01	N31	DRAIN-WATER-TANK-1	01/05/2023	SM5210 B

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

01/05/2023 14:10
RM
QD SPN

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

01/05/2023 15:30
QD SPN
RM CWC



TOTAL SUSPENDED SOLIDS - SM2540D

TEMP1 IN: 103 °C 01/06/2023 14:00 TEMP1 OUT: 103 °C 01/06/2023 15:00
TEMP2 IN: 103 °C 01/06/2023 15:30 TEMP2 OUT: 104 °C 01/06/2023 16:30
TEMP3 IN: 104 °C 01/09/2023 10:30 TEMP3 OUT: 103 °C 01/09/2023 12:00
TEMP4 IN: 103 °C 01/09/2023 12:30 TEMP4 OUT: 104 °C 01/09/2023 14:00

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 01/06/2023

Run Number: LB123586

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB123586BL	LB123586BL	1.3582	1.3582	100	1.3583	1.3583	1.3583	0.0001	1
2	LB123586BS	LB123586BS	1.5473	1.5473	100	1.6005	1.6005	1.6005	0.0532	532
3	O1013-02	COMP	1.4163	1.4163	100	1.4224	1.4224	1.4224	0.0061	61
4	O1039-01	TOWER-1	1.4179	1.4179	1000	1.4259	1.4259	1.4259	0.0080	8
5	O1039-02	TOWER-2	1.4173	1.4173	1000	1.4236	1.4236	1.4236	0.0063	6.3
6	O1040-02	DSN001	1.4057	1.4057	1000	1.4172	1.4172	1.4172	0.0115	11.5
7	O1040-04	DSN002	1.4231	1.4231	1000	1.4325	1.4325	1.4325	0.0094	9.4
8	O1040-05	DSN003	1.4331	1.4331	1000	1.4371	1.4371	1.4371	0.0040	4
9	O1040-05DUP	DSN003DUP	1.4402	1.4402	1000	1.4444	1.4444	1.4444	0.0042	4.2
10	O1041-01	DRAIN-WATER-TANK-1	1.4251	1.4251	100	1.4435	1.4435	1.4435	0.0184	184
11	O1044-01	COMP-SAMPLE-TANK-10-34-35	1.4333	1.4333	1000	1.4370	1.4370	1.4370	0.0037	3.7
12	O1045-01	COMP-SAMPLE-TANK-11-12-31-3	1.4189	1.4189	1000	1.4218	1.4218	1.4218	0.0029	2.9
13	O1046-01	COMP-SAMPLE-API-3	1.4271	1.4271	1000	1.4297	1.4297	1.4297	0.0026	2.6
14	O1052-01	UST-DRUM	1.4060	1.4060	100	1.7644	1.7644	1.7644	0.3584	3584
15	O1055-01	MH-J	1.4164	1.4164	1000	1.4419	1.4419	1.4419	0.0255	25.5



TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 01/06/2023

Run Number: LB123586

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 01/06/2023 14:00 TEMP1 OUT: 103 °C 01/06/2023 15:00
TEMP2 IN: 103 °C 01/06/2023 15:30 TEMP2 OUT: 104 °C 01/06/2023 16:30
TEMP3 IN: 104 °C 01/09/2023 10:30 TEMP3 OUT: 103 °C 01/09/2023 12:00
TEMP4 IN: 103 °C 01/09/2023 12:30 TEMP4 OUT: 104 °C 01/09/2023 14:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
16	O1055-03	MH-F	1.4230	1.4230	1000	1.4414	1.4414	1.4414	0.0184	18.4
17	O1055-05	MH-G	1.4133	1.4133	1000	1.4248	1.4248	1.4248	0.0115	11.5
18	O1059-01	001-WILLETTS-PT-BLVD (JAN)	1.4106	1.4106	100	1.4203	1.4203	1.4203	0.0097	97
19	O1059-02	002-35TH-AVE (JAN)	1.3970	1.3970	100	1.4052	1.4052	1.4052	0.0082	82
20	O1066-01	OILY-WATER-1	1.4206	1.4206	1000	1.4378	1.4378	1.4378	0.0172	17.2

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} \times 1000 \times 1000$

123586

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tss o1066 WorkList ID : 166392 Department : Wet-Chemistry Date : 01-09-2023 08:21:19

Due Date	Matrix	Sample	Test	Preservative	Customer	Raw Sample Storage Location	Customer Sample	Collect Date	Method
01/11/2023	Water	O1013-02	TSS	Cool 4 deg C	ARAM01	N11	COMP	01/04/2023	SM2540 D
01/12/2023	Water	O1039-01	TSS	Cool 4 deg C	PSEG04	N31	TOWER-1	01/05/2023	SM2540 D
01/12/2023	Water	O1039-02	TSS	Cool 4 deg C	PSEG04	N31	TOWER-2	01/05/2023	SM2540 D
01/12/2023	Water	O1040-02	TSS	Cool 4 deg C	PSEG04	N31	DSN001	01/05/2023	SM2540 D
01/12/2023	Water	O1040-04	TSS	Cool 4 deg C	PSEG04	N31	DSN002	01/05/2023	SM2540 D
01/12/2023	Water	O1040-05	TSS	Cool 4 deg C	PSEG04	N31	DSN003	01/05/2023	SM2540 D
01/12/2023	Water	O1041-01	TSS	Cool 4 deg C	MAJO01	N31	DRAIN-WATER-TANK-1	01/05/2023	SM2540 D
01/11/2023	Water	O1044-01	TSS	Cool 4 deg C	ENVI70	N31	COMP-SAMPLE-TANK-10-34-35	01/04/2023	SM2540 D
01/11/2023	Water	O1045-01	TSS	Cool 4 deg C	ENVI70	N31	COMP-SAMPLE-TANK-11-12-31-32-33	01/04/2023	SM2540 D
01/11/2023	Water	O1046-01	TSS	Cool 4 deg C	ENVI70	N31	COMP-SAMPLE-API-3	01/04/2023	SM2540 D
01/12/2023	Water	O1052-01	TSS	Cool 4 deg C	PSEG03	N31	UST-DRUM	01/06/2023	SM2540 D
01/13/2023	Water	O1055-01	TSS	Cool 4 deg C	TULL02	N31	MH-J	01/06/2023	SM2540 D
01/13/2023	Water	O1055-03	TSS	Cool 4 deg C	TULL02	N31	MH-F	01/06/2023	SM2540 D
01/13/2023	Water	O1055-05	TSS	Cool 4 deg C	TULL02	N31	MH-G	01/06/2023	SM2540 D
01/12/2023	Water	O1059-01	TSS	Cool 4 deg C	TULL01	N11	001-WILLETS-PT-BLVD(JAN)	01/05/2023	SM2540 D
01/12/2023	Water	O1059-02	TSS	Cool 4 deg C	TULL01	N11	002-35TH-AVE(JAN)	01/05/2023	SM2540 D
01/11/2023	Water	O1066-01	TSS	Cool 4 deg C	PSEG03	N31	OILY-WATER-1	01/06/2023	SM2540 D

Date/Time 01.09.23 08:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 01.09.23 11:00
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16