Appendix I-3

Dense Graded Aggregate Information and Analytical Report

- Licensed quarry material collected by Tilcon from the Pompton Lakes and Mount Hope quarries (reports included in this Appendix) exceeded the DIGWSSL for manganese. Manganese is a naturally occurring and the applicable Groundwater Quality Standards are based on secondary considerations (primarily aesthetic considerations such as taste, odor, and appearance) and not health considerations; as such, the exceedances do not need to be addressed for the impact to groundwater pathway.

TILCON NEW YORK INC.

PHONE: 973-366-7741 • 9 ENTIN ROAD • PARSIPPANY, NEW JERSEY 07054

2018 Clean Fill Material Certification – *NJ Locations Only*

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials and conform to section 901 of the *2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*. The material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality Products List (QPL) of the NJDOT website http://www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Pompton Lakes Quarry – Granite Gneiss, 84 Borough of Pompton Lakes, Morris County, Blk No(s) 105 - Lot(s) 84. Pompton Lakes contains NJDOT approved crushed stone and certified fill products.

Mt. Hope Quarry – Granite Gneiss, 625 Mt. Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot No(s) 5.01, 5.02, 7; Block No 70001 Lot No 2; Block No 20101 Lot No 6. Mt. Hope quarry contains NJDOT approved crushed stone, washed products and certified fill products.

Tilcon NY Inc. has had the Pompton Lakes and Mt. Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the *above* quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry – Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Blk No(s) 25, 26, 27, 29 Lot No 3. Riverdale Quarry contains NJDOT approved crushed stone, washed products and certified fill materials.

Oxford Quarry – Granite Gneiss and Limestone, Quarry Road and Mt. Pisgah Avenue, White Township, Warren County, Block 32 – Lots 15, 16, Block 33 – Lots 22, 23, Block 34 – Lots 19, 20, Block 25 – Lots 3, 5, 9, 9.01. Oxford quarry contains NJDOT approved crushed stone, washed products and certified fill materials.

Tilcon New York, Inc.
Quality Control Department
973-659-3790

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

August 20, 2018

Entact LLC
900 Garfield Avenue
Jersey City, NJ 07305

Attn: Evan Perry

Dear Mr. Perry:

As it is produced by our Mount Hope and Pompton Lake quarries, DGA is manufactured to meet New Jersey Department of Transportation (N.J.D.O.T) Standard Specifications. The materials would be classified as GW under the Unified Soils Classification System, and both are Non Plastic per ASTM D4318. Our Mt. Hope and Pompton sources are approved for DGA on the Quality Products List (QPL) of the NJDOT website:

www.state.nj.us/transportation/eng/materials/qualified/QPLD

Our Mt. Hope and Pompton quarries supply 00% virgin granite that is quarried and processed to finished sizes. Material shipped from our Mt. Hope and Pompton sources are clean and free of contaminants prior to loading.

Attached, please find typical gradation and test results confirming source quality and modified Proctor.

If you have any questions or require additional information, please contact me at clafleur@tilconny.com.

Very truly yours,
TILCON NEW YORK, INC.

Cindy LaFleur
Director, Quality Control

Gradation Test Report

Plant 060_00418-Mt. Hope Quarry
Product 1018001-DGA
Specification DGA

1967438359

Sample Information

Sample No 1967438359
Date Sampled 08/14/2018 09:59
Sampled By Dallas Boris
Type Shipping
Method Load-out Face

Split Sample ☐
Resample ☐

Gradation Results

Date Completed 08/14/2018 09:59
Tested By Dallas Boris

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
lb		37.10	35.52		4.3	

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		100-100	
1" (25mm)	3.70	3.70	10.0	10.0	90.0			
3/4" (19mm)	7.90	11.60	21.3	31.3	68.7	55-90\72.7	55-90	
1/2" (12.5mm)	6.50	18.10	17.5	48.8	51.2			
3/8" (9.5mm)	4.80	22.90	12.9	61.7	38.3			
#4 (4.75mm)	0.90	23.80	2.4	64.2	35.8	25-50\41	25-50	
#8 (2.36mm)	2.26	26.06	6.1	70.3	29.7			
#16 (1.18mm)	2.91	28.98	7.9	78.1	21.9			
#30 (0.6mm)	2.00	30.98	5.4	83.5	16.5			
#50 (0.3mm)	1.79	32.76	4.8	88.3	11.7	5.6-25\16.4	5-25	
#100 (0.15mm)	1.37	34.13	3.7	92.0	8.0			
#200 (75µm)	1.07	35.20	2.9	94.9	5.1	3-10\6.2	3-10	
Pan	0.33	35.52	5.1	100.0	0.0			

Gradation Test Report

Plant 060_00425-Pompton Lakes Quarry
Product 1018001-DGA
Specification DGA

1623428230

Sample Information

Sample No 1623428230
Date Sampled 08/01/2018 13:36
Sampled By Ryan Wingfield
Type Production
Method Stockpile

Split Sample ☐
Resample ☐

Gradation Results

Date Completed 08/01/2018 13:36
Tested By Ryan Wingfield

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
g		3930.60	3756.70		4.4	

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0		100-100	
1" (25mm)	87.90	87.90	2.2	2.2	97.8			
3/4" (19mm)	460.60	548.50	11.7	14.0	86.0		55-90	
1/2" (12.5mm)	867.80	1416.30	22.1	36.0	64.0			
3/8" (9.5mm)	359.10	1775.40	9.1	45.2	54.8			
#4 (4.75mm)	668.80	2444.20	17.0	62.2	37.8		25-50	
#8 (2.36mm)	379.10	2823.30	9.6	71.8	28.2			
#16 (1.18mm)	274.70	3098.00	7.0	78.8	21.2			
#30 (0.6mm)	212.50	3310.50	5.4	84.2	15.8			
#50 (0.3mm)	179.80	3490.30	4.6	88.8	11.2		5-25	
#100 (0.15mm)	130.10	3620.40	3.3	92.1	7.9			
#200 (75µm)	91.50	3711.90	2.33	94.44	5.56		3-10	
Pan	41.10	3753.00	5.56	100.00	0.00			

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2018
Project Code: 180007
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Advance Testing Co., Inc received three (3) aggregate samples on January 3, 2018. The Source of all three aggregates was Mount Hope Quarry. At the client's request, the samples were tested for the following properties:

- Specific Gravities: AASHTO T85
- Resistance to Degradation (Los Angeles Abrasion): AASHTO T96
- Sodium Sulfate Soundness: AASHTO T104
- Elongated Particles: ASTM D4791
- Sand Equivalent Value: ASTM D2419
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A

Client: Tilcon New York Inc.
Project: Mount Hope Quality Control 2018
Project Code: 180007
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Mount Hope Quality Quarry)

Type of Test	Screenings	Washed Sand	¾" Stone
Sand Equivalent Value, %	68	87	Not Applicable
Specific Gravity			
• **Bulk**	2.676	2.697	2.713
• **Bulk-SSD**	2.702	2.714	2.724
• **Apparent**	2.747	2.746	2.744
Water Absorption, SSD, %	0.97	0.66	0.42
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	24.0
Flat and Long Particles, %			
• **3:1**	Not Applicable	Not Applicable	13.8
• **5:1**			1.1
Soundness, % Loss (5 Cycle Sodium Sulfate)	0.91	1.02	0.18
Uncompacted Void Content, %	48.3	47.1	Not Applicable
Rock Type	Granite		

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez
Laboratory Manager
Advance Testing Company, Inc.

Client: Tilcon New York Inc.
Project: Pompton Lakes Quality Control 2018
Project Code: 180006
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Pompton Lakes Quarry)

Advance Testing Co., Inc received three (3) aggregate samples on January 3, 2018. The Source of all three aggregates was Pompton Lakes Quarry. At the client's request, the samples were tested for the following properties:

- Specific Gravities: AASHTO T85
- Resistance to Degradation (Los Angeles Abrasion): AASHTO T96
- Sodium Sulfate Soundness: AASHTO T104
- Elongated Particles: ASTM D4791
- Sand Equivalent Value: ASTM D2419
- Uncompacted Void Content for Fine Aggregates: AASHTO T304 Method A

Client: Tilcon New York Inc.
Project: Pompton Lakes Quality Control 2018
Project Code: 180006
Subject: Laboratory Tests of Fine and Coarse Aggregate Samples (Pompton Lakes Quarry)

Type of Test	Screenings	Washed Sand	¾" Stone
Sand Equivalent Value, %	64	85	Not Applicable
Specific Gravity • **Bulk** • **Bulk-SSD** • **Apparent**	 2.601 2.653 2.745	 2.601 2.637 2.697	 2.717 2.731 2.755
Water Absorption, SSD, %	2.01	1.36	0.51
L.A. Abrasion, % Loss	Not Applicable	Not Applicable	24.9
Flat and Long Particles, % • **3:1** • **5:1**	Not Applicable	Not Applicable	 14.6 1.1
Soundness, % Loss (5 Cycle Sodium Sulfate)	0.83	0.95	0.18
Uncompacted Void Content, %	47.7	47.3	Not Applicable
Rock Type	Granite/ Granite Gneiss		

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez
Laboratory Manager
Advance Testing Company, Inc.

Proctor Test

Plant	060_00418-Mt. Hope Quarry
Product	1018001-DGA

1672297011

Test Information

Test Number	1560027606	Sample No	1672297011
Date Started	3/15/2018 12:39:00 PM	Date Sampled	03/15/2018 12:39
Date Completed	03/15/2018 12:39	Test Note	
Tested By	Leslie Dalessandro	This Proctor is provided for informational purposes only, and Tilcon NY recommends verification by an independent laboratory for current results.	
Procedure			
Lab			

Test Results

Test Method	AASHTO	Specific Gravity (Soil)		
Proctor Type	Modified	Specific Gravity Procedure		
Method	A	% Retained on 3/4" (19mm)		
Prep Method	Dry	Oversize Correction	None	
Hammer Type	Manual	Mold/Moisture Mass Units	g	g
Mold Size	6 in	Volume Unit	ft3	
Mold Volume	0.075 ft3	Density Unit	lb/ft3	
Subsamples	3			

	Subsample 1	Subsample 2	Subsample 3	
Mass of Mold	6555	6555	6555	g
Mass of Mold + Wet Soil	11458	11777	11700	g
Wet Mass of Soil	4903	5222	5145	g
Volume of Mold	0.075	0.075	0.075	ft3
Wet Density	144	154	151	lb/ft3
Mass Of Pan	721.8	678.3	721.8	g
Wet Mass of Soils + Pan	4625.2	4929.3	5109.1	g
Dry Mass of Soils + Pan	4475.7	4641.9	4715.3	g
Mass of Moisture	149.5	287.4	393.8	g
% Moisture	4	7.3	9.9	%
Dry Density	138.5	143.5	137.4	lb/ft3

Proctor Test

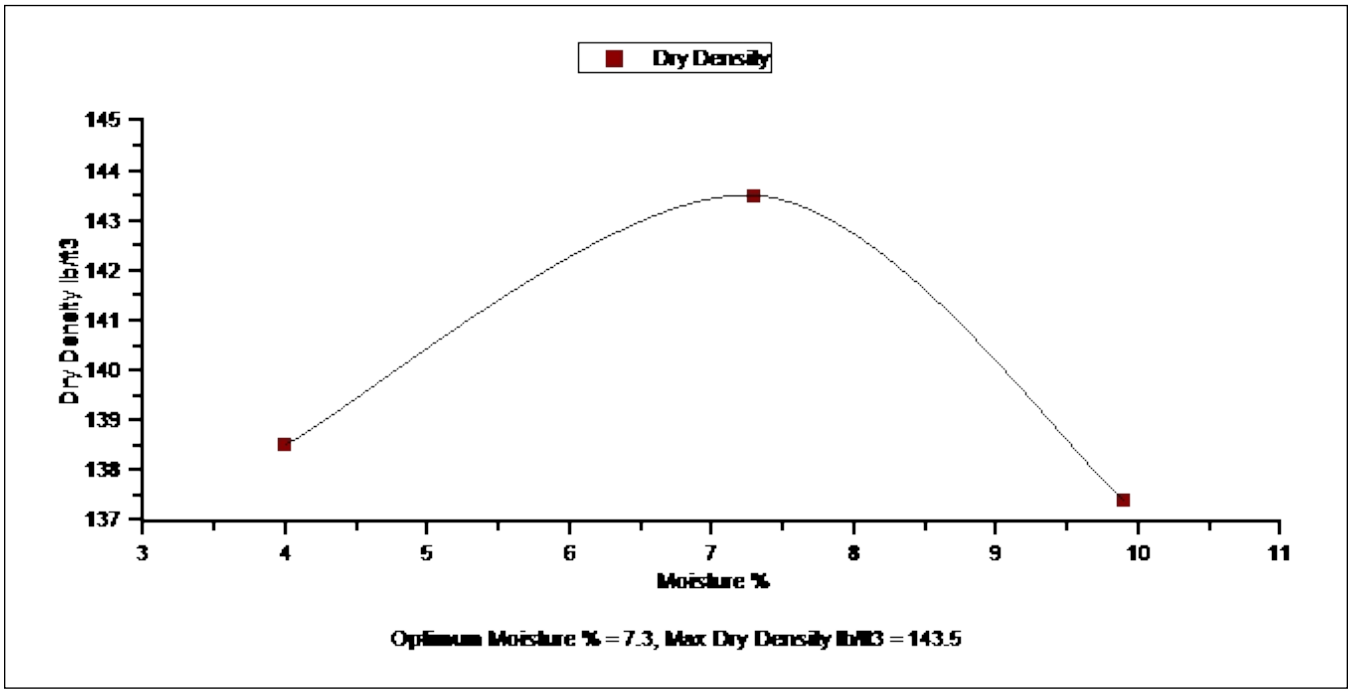
Plant 060_00418-Mt. Hope Quarry
Product 1018001-DGA

1672297011

Test Information

Test Number	1560027606	Sample No	1672297011
Date Started	3/15/2018 12:39:00 PM	Date Sampled	03/15/2018 12:39
Date Completed	03/15/2018 12:39	Test Note	
Tested By	Leslie Dalessandro	This Proctor is provided for informational purposes only, and Tilcon NY recommends verification by an independent laboratory for current results.	
Procedure			
Lab			

	Results	Targets	Specifications
Opt Moisture (Proctor-Mod) %	7.3		
Max Dry Density (Proctor-Mod) lb/ft3	143.5		
Max Wet Density (Proctor-Mod) lb/ft3	154		



Proctor Test

Plant	060_00418-Mt. Hope Quarry
Product	1018001-DGA

1935157237

Test Information

Test Number	1664748096	Sample No	1935157237
Date Started	3/26/2018 9:30:00 AM	Date Sampled	03/26/2018 09:30
Date Completed	03/26/2018 09:30	Test Note	
Tested By	Leslie Dalessandro	This Proctor is provided for informational purposes only, and Tilcon NY recommends verification by an independent laboratory for current results.	
Procedure			
Lab			

Test Results

Test Method	AASHTO	Specific Gravity (Soil)		
Proctor Type	Standard	Specific Gravity Procedure		
Method	A	% Retained on 3/4" (19mm)		
Prep Method	Dry	Oversize Correction	None	
Hammer Type	Manual	Mold/Moisture Mass Units	g	g
Mold Size	4 in	Volume Unit	ft3	
Mold Volume	0.0333 ft3	Density Unit	lb/ft3	
Subsamples	4			

	Subsample 1	Subsample 2	Subsample 3	Subsample 4	
Mass of Mold	4301.5	4301.5	4301.5		g
Mass of Mold + Wet Soil	6225.7	6297.9	6298.3		g
Wet Mass of Soil	1924.2	1996.4	1996.8		g
Volume of Mold	0.0333	0.0333	0.0333	0.0333	ft3
Wet Density	127	132	132		lb/ft3
Mass Of Pan	723.1	808.3	834.5		g
Wet Mass of Soils + Pan	3369.3	3612.8	3781.5		g
Dry Mass of Soils + Pan	3333.1	3539	3635.2		g
Mass of Moisture	36.2	73.8	146.3		g
% Moisture	1.4	2.7	5.2		%
Dry Density	125.2	128.5	125.5		lb/ft3

Proctor Test

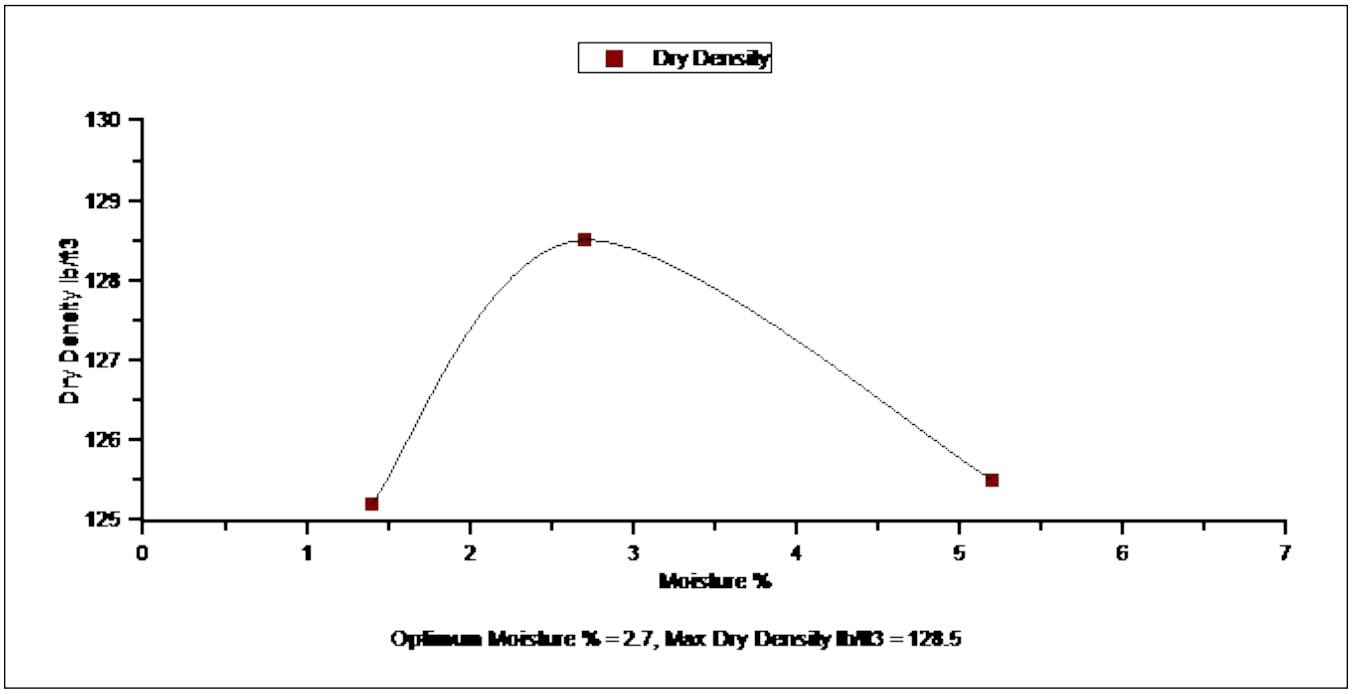
Plant 060_00418-Mt. Hope Quarry
Product 1018001-DGA

1935157237

Test Information

Test Number	1664748096	Sample No	1935157237
Date Started	3/26/2018 9:30:00 AM	Date Sampled	03/26/2018 09:30
Date Completed	03/26/2018 09:30	Test Note	
Tested By	Leslie Dalessandro	This Proctor is provided for informational purposes only, and Tilcon NY recommends verification by an independent laboratory for current results.	
Procedure			
Lab			

	Results	Targets	Specifications
Opt Moisture (Proctor-Std) %	2.7		
Max Dry Density (Proctor-Std) lb/ft3	128.5		
Max Wet Density (Proctor-Std) lb/ft3	132		



Proctor Test

Plant	060_00425-Pompton Lakes Quarry
Product	1018001-DGA

1708783687

Test Information

Test Number	1536255886	Sample No	1708783687
Date Started	2/13/2018 10:37:00 AM	Date Sampled	02/13/2018 10:37
Date Completed	02/13/2018 10:37	Test Note	
Tested By	Patrick Paolella	**THE PROCTOR PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE VERIFIED BY AN INDEPENDENT TESTING LAB.	
Procedure			
Lab			

Test Results

Test Method	ASTM	Specific Gravity (Soil)			
Proctor Type	Standard	Specific Gravity Procedure			
Method	A	% Retained on 3/4" (19mm)			
Prep Method	Dry	Oversize Correction	None		
Hammer Type	Manual	Mold/Moisture Mass Units	g		kg
Mold Size	4 in	Volume Unit	ft3		
Mold Volume	0.0333 ft3	Density Unit	lb/ft3		
Subsamples	5				

	Subsample 1	Subsample 2	Subsample 3	Subsample 4	Subsample 5	
Mass of Mold	4262		4262	4262	4262	g
Mass of Mold + Wet Soil	6257.5		6362.2	6414.5	6427.1	g
Wet Mass of Soil	1995.5		2100.2	2152.5	2165.1	g
Volume of Mold	0.0333	0.0333	0.0333	0.0333	0.0333	ft3
Wet Density	132		139	143	143	lb/ft3
Mass Of Pan	0		0	0	0	kg
Wet Mass of Soils + Pan	1995.5		2100.2	2152.5	2165.1	kg
Dry Mass of Soils + Pan	1915.7		1974.2	1980.3	1927	kg
Mass of Moisture	79.8		126	172.2	238.1	kg
% Moisture	4.2		6.4	8.7	12.4	%
Dry Density	126.7		130.6	131.6	127.2	lb/ft3

Proctor Test

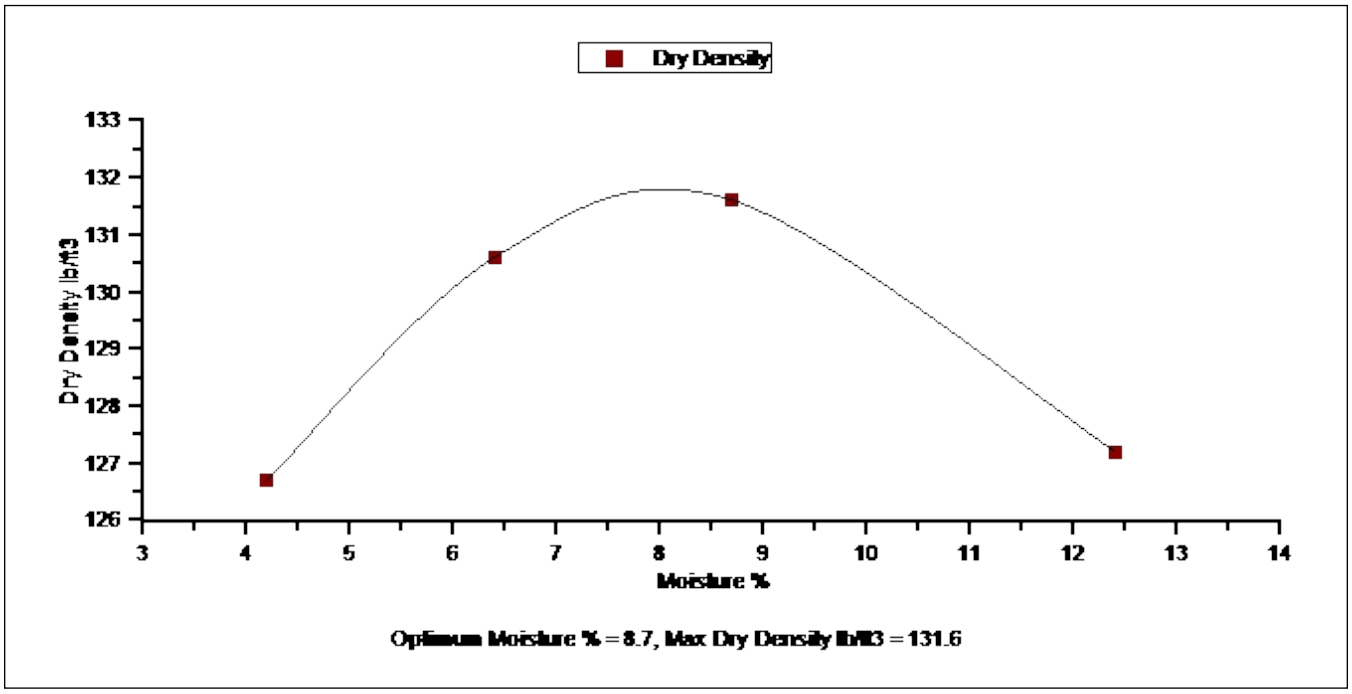
Plant 060_00425-Pompton Lakes Quarry
Product 1018001-DGA

1708783687

Test Information

Test Number	1536255886	Sample No	1708783687
Date Started	2/13/2018 10:37:00 AM	Date Sampled	02/13/2018 10:37
Date Completed	02/13/2018 10:37	Test Note	
Tested By	Patrick Paolella	**THE PROCTOR PROVIDED IS FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE VERIFIED BY AN INDEPENDENT TESTING LAB.	
Procedure			
Lab			

	Results	Targets	Specifications
Opt Moisture (Proctor-Std) %	8.7		
Max Dry Density (Proctor-Std) lb/ft3	131.6		
Max Wet Density (Proctor-Std) lb/ft3	143		



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

DATA FOR

VOLATILE ORGANICS

SEMI-VOLATILE ORGANICS

GC SEMI-VOLATILES

METALS

GENERAL CHEMISTRY

PROJECT NAME : JERSEY CITY

ENTACT

102 Chesley Drive Jamestown Building

Media, PA - 19063

Phone No: 4844440702

ORDER ID : J4449

ATTENTION : Brady Bonsted

NELAP ACCREDITED TNI LABORATORY

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP

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

Date : 08/15/2018

Dear Brady Bonsted,

4 soil samples for the **Jersey City** project were received on **08/10/2018.** The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

Regards,

Joseph Aragona

908 728 3147

joseph@chemtech.net

ENTACT

CHAIN OF CUSTODY RECORD

NO. J4449

COMPANY INFORMATION		PROJECT INFORMATION	
LOCATION	ENTACT	PROJECT	E7852AG
ATTN	Paul Jennings	BILLING INFORMATION	
ADDRESS	70 Carteret Ave	BILL TO	ENTACT
	Jersey City, NJ 07305	ADDRESS	1 E. Oak Hill Drive, Suite 102
			Westmont, IL 60559
PHONE	203-561-9633	PHONE	630-986-2900
EMAIL	pjennings@entact.com	EMAIL	PO E7852AG

SAMPLE NO	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	TAL Metals SW 846 6010C/7471A	TCL VOC SW 846 8260B/5035	TCL SVOC SW 846 8270D/3550C	EPH NJEPH SW 846/3545A	Pesticides SW 846 8081B/3545A	Herbicides SW846 8151/3550B	PCB SW 846 8082A/3545A	Hex Chromium SW 846 3060A/7196A	SPLP Metals SW 6010B/7471A	pH SW846 9045C,D	Redox Potential (Eh) ASTM D1498-76M	Percent Solids SM 18 2540G	COMMENTS
Tilcon-MH-001	Backfill DGA	8/10/18	11:30	Soil	Jar/Encore	None	7	X	X	X	X	X	X	X	X	X	X	x	X	3 x 8oz jars, 1 x 4 oz jar , 3 x 5g encore
Tilcon-PL-001	Backfill DGA	8/10/18	11:45	Soil	Jar/Encore	None	7	X	X	X	X	X	X	X	X	X	X	x	X	3 x 8oz jars, 1 x 4 oz jar , 3 x 5g encore

REQUESTED ANALYSIS/METHOD

***NJDEP Impact to Groundwater Screening Levels

Full data package for Hexavalent Chromium [Results + QC (all raw data)]

SAMPLER	Paul Jennings	SHIPMENT		AIRBILL		
REQUIRED TURNAROUND		☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☒ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☐ ROUTINE ☐ OTHER:				

1. RELINQUISHED BY	DATE	2. RELINQUISHED BY	DATE	3. RELINQUISHED BY	DATE
SIGNATURE: Paul Jennings		SIGNATURE: Dudley Picssaint	8/10/18	SIGNATURE:	
PRINTED NAME/COMPANY: PAUL JENNINGS/ENTACT		PRINTED NAME/COMPANY:	1705	PRINTED NAME/COMPANY:	
1. RECEIVED BY	DATE	2. RECEIVED BY	DATE	3. RECEIVED BY	DATE
SIGNATURE:		SIGNATURE:	8/10/18	SIGNATURE:	
PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	1705	PRINTED NAME/COMPANY:	

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

Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18 11:30
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
		% Solid:	98.3

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.12	U	1	0.032	0.12	0.24	mg/Kg	08/13/18 09:40	08/13/18 13:42	9012B
Hexavalent Chromium	0.201	U	1	0.08	0.201	0.401	mg/Kg	08/14/18 10:00	08/14/18 14:15	7196A
pH	9.08	H	1	0	0	0	pH		08/13/18 14:10	9045D
Redox Potential	126.60		1	0	0	0	mV		08/13/18 13:12	1498
Trivalent Chromium	11.3		1	0.102	0.102	0.102	mg/Kg		08/14/18 19:31	6010D

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

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

Report of Analysis

Client:	ENTACT			Date Collected:	08/10/18
Project:	Jersey City			Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001			SDG No.:	J4449
Lab Sample ID:	J4449-01			Matrix:	Solid
Analytical Method:	NJEPH			% Moisture:	1.7
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/14/18 08:00	08/15/18 10:10	PB112057

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS									
Aliphatic C28-C40	Aliphatic C28-C40	1.015	U	1	0.814	1.015	2.03	mg/kg	FC035892.D
Aliphatic C9-C28	Aliphatic C9-C28	2.035	U	1	1.52	2.035	4.07	mg/kg	FC035892.D
Total AliphaticEPH	Total AliphaticEPH	3.05	U		2.33	3.05	6.1	mg/kg	
Total EPH	Total EPH	3.05	U		2.33	3.05	6.1	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-MH-001		SDG No.:	J4449	
Lab Sample ID:	J4449-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Moisture:	1.7	
Sample Wt/Vol:	30.05	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC035892.D	1	08/14/18	08/15/18	PB112057

CAS Number	Parameter		Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
Aliphatic C9-C28		Aliphatic C9-C28	2.035	U	1.52	2.035	4.07	mg/kg
Aliphatic C28-C40		Aliphatic C28-C40	1.015	U	0.814	1.015	2.03	mg/kg
SURROGATES								
3383-33-2		1-chlorooctadecane (SURR)	49.7		40 - 140		99.46%	SPK: 50
84-15-1		ortho-Terphenyl (SURR)	46.5		40 - 140		93%	SPK: 50

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-MH-001		SDG No.:	J4449	
Lab Sample ID:	J4449-01		Matrix:	SOIL	
Analytical Method:	SW8151A		% Moisture:	1.7	Decanted:
Sample Wt/Vol:	30.06	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS001491.D	1	08/14/18 08:32	08/14/18 19:28	PB112016

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	16.9	U	13.5	16.9	68	ug/Kg
120-36-5	DICHLORPROP	16.9	U	12.5	16.9	68	ug/Kg
94-75-7	2,4-D	16.9	U	16.9	16.9	68	ug/Kg
93-72-1	2,4,5-TP (Silvex)	16.9	U	11.1	16.9	68	ug/Kg
93-76-5	2,4,5-T	16.9	U	10.4	16.9	68	ug/Kg
94-82-6	2,4-DB	16.9	U	16.9	16.9	68	ug/Kg
88-85-7	DINOSEB	16.9	U	16.9	16.9	68	ug/Kg
SURROGATES							
19719-28-9	2,4-DCAA	303		12 - 189		61%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	98.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	6430		1	0.721	1.07	4.29	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-36-0	Antimony	0.537	U	1	0.481	0.537	2.15	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-38-2	Arsenic	3.69		1	0.215	0.215	0.858	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-39-3	Barium	28.7		1	0.343	1.07	4.29	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-41-7	Beryllium	0.555		1	0.052	0.064	0.258	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-43-9	Cadmium	0.227	J	1	0.052	0.064	0.258	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-47-3	Chromium	11.3		1	0.107	0.107	0.429	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-48-4	Cobalt	2.95		1	0.322	0.322	1.29	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-50-8	Copper	1.4	N	1	0.215	0.215	0.858	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7439-92-1	Lead	9.18		1	0.103	0.215	0.515	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7439-96-5	Manganese	177		1	0.163	0.215	0.858	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7439-97-6	Mercury	0.009	J	1	0.007	0.007	0.014	mg/Kg	08/13/18 17:33	08/14/18 15:44	SW7471B
7440-02-0	Nickel	6.96		1	0.395	0.429	1.72	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7782-49-2	Selenium	0.366	J	1	0.215	0.215	0.858	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-22-4	Silver	0.107	U	1	0.107	0.107	0.429	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-28-0	Thallium	0.429	U	1	0.232	0.429	1.72	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-62-2	Vanadium	14.8		1	0.429	0.429	1.72	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010
7440-66-6	Zinc	37.7		1	0.429	0.429	1.72	mg/Kg	08/14/18 10:35	08/14/18 19:31	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	NJ Cleanup Test New				

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

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

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	1.7 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO048033.D	1	08/13/18 08:47	08/13/18 21:12	PB111973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	3.4	U	3.4	3.4	17.3	ug/kg
11104-28-2	Aroclor-1221	3.4	U	3.4	3.4	17.3	ug/kg
11141-16-5	Aroclor-1232	3.4	U	3.4	3.4	17.3	ug/kg
53469-21-9	Aroclor-1242	3.4	U	3.4	3.4	17.3	ug/kg
12672-29-6	Aroclor-1248	3.4	U	3.4	3.4	17.3	ug/kg
11097-69-1	Aroclor-1254	3.4	U	1.5	3.4	17.3	ug/kg
37324-23-5	Aroclor-1262	3.4	U	3.4	3.4	17.3	ug/kg
11100-14-4	Aroclor-1268	3.4	U	3.4	3.4	17.3	ug/kg
11096-82-5	Aroclor-1260	3.4	U	3.4	3.4	17.3	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	30.2		10 - 166		151%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.3	*	60 - 125		137%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001RE	SDG No.:	J4449
Lab Sample ID:	J4449-01RE	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	1.7 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO048040.D	1	08/13/18 08:47	08/14/18 08:19	PB111973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	3.4	U	3.4	3.4	17.3	ug/kg
11104-28-2	Aroclor-1221	3.4	U	3.4	3.4	17.3	ug/kg
11141-16-5	Aroclor-1232	3.4	U	3.4	3.4	17.3	ug/kg
53469-21-9	Aroclor-1242	3.4	U	3.4	3.4	17.3	ug/kg
12672-29-6	Aroclor-1248	3.4	U	3.4	3.4	17.3	ug/kg
11097-69-1	Aroclor-1254	3.4	U	1.5	3.4	17.3	ug/kg
37324-23-5	Aroclor-1262	3.4	U	3.4	3.4	17.3	ug/kg
11100-14-4	Aroclor-1268	3.4	U	3.4	3.4	17.3	ug/kg
11096-82-5	Aroclor-1260	3.4	U	3.4	3.4	17.3	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	32.1		10 - 166		160%	SPK: 20
2051-24-3	Decachlorobiphenyl	29.8	*	60 - 125		149%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8081	% Moisture:	1.7 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE NJCLEAN Group New
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD048907.D	1	08/13/18 08:48	08/14/18 01:28	PB111974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.336	U	0.132	0.336	1.7	ug/kg
319-85-7	beta-BHC	0.336	U	0.183	0.336	1.7	ug/kg
58-89-9	gamma-BHC (Lindane)	0.336	U	0.152	0.336	1.7	ug/kg
76-44-8	Heptachlor	0.336	U	0.142	0.336	1.7	ug/kg
309-00-2	Aldrin	0.336	U	0.102	0.336	1.7	ug/kg
1024-57-3	Heptachlor epoxide	0.336	U	0.163	0.336	1.7	ug/kg
959-98-8	Endosulfan I	0.336	U	0.152	0.336	1.7	ug/kg
60-57-1	Dieldrin	0.336	U	0.132	0.336	1.7	ug/kg
72-55-9	4,4-DDE	0.336	U	0.203	0.336	1.7	ug/kg
72-20-8	Endrin	0.336	U	0.183	0.336	1.7	ug/kg
33213-65-9	Endosulfan II	0.336	U	0.142	0.336	1.7	ug/kg
72-54-8	4,4-DDD	0.336	U	0.173	0.336	1.7	ug/kg
1031-07-8	Endosulfan Sulfate	0.336	U	0.152	0.336	1.7	ug/kg
50-29-3	4,4-DDT	0.336	U	0.142	0.336	1.7	ug/kg
72-43-5	Methoxychlor	0.336	U	0.173	0.336	1.7	ug/kg
5103-71-9	alpha-Chlordane	0.336	U	0.142	0.336	1.7	ug/kg
5103-74-2	gamma-Chlordane	0.336	U	0.132	0.336	1.7	ug/kg
8001-35-2	Toxaphene	3.4	U	3.4	3.4	17.3	ug/kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	24.1		10 - 169		121%	SPK: 20
877-09-8	Tetrachloro-m-xylene	32.8	*	31 - 151		164%	SPK: 20

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-MH-001		SDG No.:	J4449	
Lab Sample ID:	J4449-01		Matrix:	SOIL	
Analytical Method:	SW8081		% Moisture:	1.7	Decanted:
Sample Wt/Vol:	30.01	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE NJCLEAN Group New	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD048907.D	1	08/13/18 08:48	08/14/18 01:28	PB111974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	1.7
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108145.D	1	08/13/18 08:05	08/14/18 15:27	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
62-75-9	n-Nitrosodimethylamine	67.8	U	17.4	67.8	340	ug/Kg
100-52-7	Benzaldehyde	33.9	U	17.7	33.9	340	ug/Kg
108-95-2	Phenol	33.9	U	7.8	33.9	340	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	33.9	U	16.3	33.9	340	ug/Kg
95-57-8	2-Chlorophenol	33.9	U	17.9	33.9	340	ug/Kg
95-48-7	2-Methylphenol	33.9	U	18.4	33.9	340	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	33.9	U	14	33.9	340	ug/Kg
98-86-2	Acetophenone	33.9	U	10.4	33.9	340	ug/Kg
65794-96-9	3+4-Methylphenols	33.9	U	17.6	33.9	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	33.9	U	17.1	33.9	340	ug/Kg
67-72-1	Hexachloroethane	33.9	U	15.1	33.9	340	ug/Kg
98-95-3	Nitrobenzene	33.9	U	12.8	33.9	340	ug/Kg
78-59-1	Isophorone	33.9	U	11.2	33.9	340	ug/Kg
105-67-9	2,4-Dimethylphenol	33.9	U	19.2	33.9	340	ug/Kg
120-83-2	2,4-Dichlorophenol	33.9	U	12.9	33.9	340	ug/Kg
91-20-3	Naphthalene	33.9	U	11.7	33.9	340	ug/Kg
87-68-3	Hexachlorobutadiene	33.9	U	12.3	33.9	340	ug/Kg
105-60-2	Caprolactam	67.8	U	15.8	67.8	340	ug/Kg
91-57-6	2-Methylnaphthalene	33.9	U	8.5	33.9	340	ug/Kg
77-47-4	Hexachlorocyclopentadiene	33.9	U	8.2	33.9	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	33.9	U	10.4	33.9	340	ug/Kg
95-95-4	2,4,5-Trichlorophenol	33.9	U	23.8	33.9	340	ug/Kg
92-52-4	1,1-Biphenyl	33.9	U	12.8	33.9	340	ug/Kg
88-74-4	2-Nitroaniline	33.9	U	15	33.9	340	ug/Kg
208-96-8	Acenaphthylene	33.9	U	8.5	33.9	340	ug/Kg
606-20-2	2,6-Dinitrotoluene	33.9	U	13.8	33.9	340	ug/Kg
83-32-9	Acenaphthene	33.9	U	9.6	33.9	340	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	34.5	270	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	33.9	U	10.2	33.9	340	ug/Kg
84-66-2	Diethylphthalate	33.9	U	5.3	33.9	340	ug/Kg
86-73-7	Fluorene	33.9	U	12.8	33.9	340	ug/Kg

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	1.7
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108145.D	1	08/13/18 08:05	08/14/18 15:27	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
534-52-1	4,6-Dinitro-2-methylphenol	170	U	19.4	170	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	33.9	U	8.1	33.9	340	ug/Kg
103-33-3	Azobenzene	33.9	U	7.9	33.9	340	ug/Kg
118-74-1	Hexachlorobenzene	33.9	U	13.8	33.9	340	ug/Kg
1912-24-9	Atrazine	33.9	U	17.9	33.9	340	ug/Kg
87-86-5	Pentachlorophenol	33.9	U	23.2	33.9	340	ug/Kg
85-01-8	Phenanthrene	33.9	U	9.1	33.9	340	ug/Kg
120-12-7	Anthracene	33.9	U	6.9	33.9	340	ug/Kg
86-74-8	Carbazole	33.9	U	7.4	33.9	340	ug/Kg
84-74-2	Di-n-butylphthalate	33.9	U	26.6	33.9	340	ug/Kg
206-44-0	Fluoranthene	33.9	U	6.8	33.9	340	ug/Kg
92-87-5	Benzidine	67.8	U	34	67.8	340	ug/Kg
129-00-0	Pyrene	33.9	U	8.1	33.9	340	ug/Kg
85-68-7	Butylbenzylphthalate	33.9	U	16.3	33.9	340	ug/Kg
91-94-1	3,3-Dichlorobenzidine	33.9	U	21.7	33.9	340	ug/Kg
56-55-3	Benzo(a)anthracene	33.9	U	16.2	33.9	340	ug/Kg
218-01-9	Chrysene	33.9	U	15.3	33.9	340	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	33.9	U	12	33.9	340	ug/Kg
117-84-0	Di-n-octyl phthalate	33.9	U	3.9	33.9	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	33.9	U	11.1	33.9	340	ug/Kg
207-08-9	Benzo(k)fluoranthene	33.9	U	16	33.9	340	ug/Kg
50-32-8	Benzo(a)pyrene	33.9	U	7.3	33.9	340	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	33.9	U	11.3	33.9	340	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	33.9	U	9.8	33.9	340	ug/Kg
191-24-2	Benzo(g,h,i)perylene	33.9	U	13.7	33.9	340	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	98.4		28 - 127		66%	SPK: 150
13127-88-3	Phenol-d6	97.7		34 - 127		65%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.9		31 - 132		73%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.6		39 - 123		84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	100		30 - 133		69%	SPK: 150
1718-51-0	Terphenyl-d14	87.2		37 - 115		87%	SPK: 100

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Report of Analysis

Client:	ENTACT			Date Collected:	08/10/18
Project:	Jersey City			Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001			SDG No.:	J4449
Lab Sample ID:	J4449-01			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	1.7
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108145.D	1	08/13/18 08:05	08/14/18 15:27	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	190008	7.02				
1146-65-2	Naphthalene-d8	667105	8.3				
15067-26-2	Acenaphthene-d10	294398	10.07				
1517-22-2	Phenanthrene-d10	541001	11.56				
1719-03-5	Chrysene-d12	441559	14.22				
1520-96-3	Perylene-d12	302520	15.78				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	1.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059760.D	1		08/14/18 03:45	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.62	U	0.62	0.62	6.2	ug/Kg
74-87-3	Chloromethane	0.62	U	0.62	0.62	6.2	ug/Kg
75-01-4	Vinyl Chloride	0.62	U	0.62	0.62	6.2	ug/Kg
74-83-9	Bromomethane	1.2	U	1.2	1.2	6.2	ug/Kg
75-00-3	Chloroethane	0.62	U	0.62	0.62	6.2	ug/Kg
75-69-4	Trichlorofluoromethane	0.62	U	0.62	0.62	6.2	ug/Kg
75-65-0	Tert butyl alcohol	31.2	U	9.2	31.2	31.2	ug/Kg
75-35-4	1,1-Dichloroethene	0.62	U	0.62	0.62	6.2	ug/Kg
107-02-8	Acrolein	31.2	U	5	31.2	31.2	ug/Kg
107-13-1	Acrylonitrile	3.1	U	3.1	3.1	31.2	ug/Kg
67-64-1	Acetone	3.1	U	3.1	3.1	31.2	ug/Kg
75-15-0	Carbon Disulfide	0.62	U	0.62	0.62	6.2	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.62	U	0.62	0.62	6.2	ug/Kg
79-20-9	Methyl Acetate	1.2	U	1.2	1.2	6.2	ug/Kg
75-09-2	Methylene Chloride	0.62	U	0.62	0.62	6.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.62	U	0.62	0.62	6.2	ug/Kg
75-34-3	1,1-Dichloroethane	0.62	U	0.62	0.62	6.2	ug/Kg
78-93-3	2-Butanone	9.4	U	3.9	9.4	31.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.62	U	0.62	0.62	6.2	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.62	U	0.62	0.62	6.2	ug/Kg
67-66-3	Chloroform	0.62	U	0.62	0.62	6.2	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.62	U	0.62	0.62	6.2	ug/Kg
71-43-2	Benzene	0.62	U	0.47	0.62	6.2	ug/Kg
107-06-2	1,2-Dichloroethane	0.62	U	0.62	0.62	6.2	ug/Kg
79-01-6	Trichloroethene	0.62	U	0.62	0.62	6.2	ug/Kg
78-87-5	1,2-Dichloropropane	0.62	U	0.32	0.62	6.2	ug/Kg
75-27-4	Bromodichloromethane	0.62	U	0.62	0.62	6.2	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.1	U	3.1	3.1	31.2	ug/Kg
108-88-3	Toluene	0.62	U	0.62	0.62	6.2	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.62	U	0.62	0.62	6.2	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	0.62	6.2	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.2	U	1.1	1.2	6.2	ug/Kg

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	1.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059760.D	1		08/14/18 03:45	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	0.62	U	0.62	0.62	6.2	ug/Kg
106-93-4	1,2-Dibromoethane	0.62	U	0.62	0.62	6.2	ug/Kg
127-18-4	Tetrachloroethene	0.62	U	0.62	0.62	6.2	ug/Kg
108-90-7	Chlorobenzene	0.62	U	0.62	0.62	6.2	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	0.62	6.2	ug/Kg
179601-23-1	m/p-Xylenes	1.2	U	0.9	1.2	12.5	ug/Kg
1330-20-7	Total Xylenes	1.82	U	1.52	1.82	18.7	ug/Kg
95-47-6	o-Xylene	0.62	U	0.62	0.62	6.2	ug/Kg
100-42-5	Styrene	0.62	U	0.56	0.62	6.2	ug/Kg
75-25-2	Bromoform	1.9	U	0.92	1.9	6.2	ug/Kg
98-82-8	Isopropylbenzene	0.62	U	0.6	0.62	6.2	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.62	U	0.57	0.62	6.2	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.62	U	0.46	0.62	6.2	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.62	U	0.51	0.62	6.2	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.62	U	0.62	0.62	6.2	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.2	U	1.1	6.2	6.2	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.62	U	0.62	0.62	6.2	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	45.5		56 - 120		91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		57 - 135		97%	SPK: 50
2037-26-5	Toluene-d8	43.6		67 - 123		87%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		33 - 141		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	214110	5.64				
540-36-3	1,4-Difluorobenzene	252081	6.7				
3114-55-4	Chlorobenzene-d5	213731	10.69				
3855-82-1	1,4-Dichlorobenzene-d4	117324	12.91				

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-01	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	1.7
Sample Wt/Vol:	4.08 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059760.D	1		08/14/18 03:45	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18 11:45
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
		% Solid:	96.7

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	2.3		1	0.033	0.125	0.25	mg/Kg	08/13/18 09:40	08/14/18 14:04	9012B
Hexavalent Chromium	0.207	U	1	0.083	0.207	0.414	mg/Kg	08/14/18 10:00	08/14/18 14:16	7196A
pH	8.62	H	1	0	0	0	pH		08/13/18 14:14	9045D
Redox Potential	155.60		1	0	0	0	mV		08/13/18 13:16	1498
Trivalent Chromium	3.32		1	0.103	0.103	0.103	mg/Kg		08/14/18 19:43	6010D

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

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Report of Analysis

Client:	ENTACT			Date Collected:	08/10/18
Project:	Jersey City			Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001			SDG No.:	J4449
Lab Sample ID:	J4449-02			Matrix:	Solid
Analytical Method:	NJEPH			% Moisture:	3.3
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	2000 uL
Soil Aliquot Vol:			uL	Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/14/18 08:00	08/15/18 10:48	PB112057

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS									
Aliphatic C28-C40	Aliphatic C28-C40	1.03	U	1	0.827	1.03	2.06	mg/kg	FC035893.D
Aliphatic C9-C28	Aliphatic C9-C28	2.065	U	1	1.54	2.065	4.13	mg/kg	FC035893.D
Total AliphaticEPH	Total AliphaticEPH	3.095	U		2.37	3.095	6.19	mg/kg	
Total EPH	Total EPH	3.095	U		2.37	3.095	6.19	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-PL-001		SDG No.:	J4449	
Lab Sample ID:	J4449-02		Matrix:	Solid	
Analytical Method:	NJEPH		% Moisture:	3.3	
Sample Wt/Vol:	30.06	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC035893.D	1	08/14/18	08/15/18	PB112057

CAS Number	Parameter		Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
Aliphatic C9-C28		Aliphatic C9-C28	2.065	U	1.54	2.065	4.13	mg/kg
Aliphatic C28-C40		Aliphatic C28-C40	1.03	U	0.827	1.03	2.06	mg/kg
SURROGATES								
3383-33-2		1-chlorooctadecane (SURR)	38.7		40 - 140		77.38%	SPK: 50
84-15-1		ortho-Terphenyl (SURR)	41.1		40 - 140		82.12%	SPK: 50

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-PL-001		SDG No.:	J4449	
Lab Sample ID:	J4449-02		Matrix:	SOIL	
Analytical Method:	SW8151A		% Moisture:	3.3	Decanted:
Sample Wt/Vol:	30.1	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS001494.D	1	08/14/18 08:32	08/14/18 21:02	PB112016

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
1918-00-9	DICAMBA	17.2	U	13.7	17.2	69.1	ug/Kg
120-36-5	DICHLORPROP	17.2	U	12.7	17.2	69.1	ug/Kg
94-75-7	2,4-D	17.2	U	17.2	17.2	69.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	17.2	U	11.2	17.2	69.1	ug/Kg
93-76-5	2,4,5-T	17.2	U	10.6	17.2	69.1	ug/Kg
94-82-6	2,4-DB	17.2	U	17.2	17.2	69.1	ug/Kg
88-85-7	DINOSEB	17.2	U	17.2	17.2	69.1	ug/Kg
SURROGATES							
19719-28-9	2,4-DCAA	451		12 - 189		90%	SPK: 500

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	96.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
7429-90-5	Aluminum	1270		1	0.727	1.08	4.33	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-36-0	Antimony	0.541	U	1	0.485	0.541	2.16	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-38-2	Arsenic	1.2		1	0.216	0.216	0.865	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-39-3	Barium	7.55		1	0.346	1.08	4.33	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-41-7	Beryllium	0.209	J	1	0.052	0.065	0.26	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-43-9	Cadmium	0.079	J	1	0.052	0.065	0.26	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-47-3	Chromium	3.32		1	0.108	0.108	0.433	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-48-4	Cobalt	5.9		1	0.325	0.325	1.3	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-50-8	Copper	9.55	N	1	0.216	0.216	0.865	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7439-92-1	Lead	0.926		1	0.104	0.216	0.519	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7439-96-5	Manganese	43.8		1	0.164	0.216	0.865	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7439-97-6	Mercury	0.011	J	1	0.006	0.006	0.012	mg/Kg	08/13/18 17:33	08/14/18 15:47	SW7471B
7440-02-0	Nickel	7.31		1	0.398	0.433	1.73	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7782-49-2	Selenium	0.708	J	1	0.216	0.216	0.865	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-22-4	Silver	0.236	J	1	0.108	0.108	0.433	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-28-0	Thallium	0.433	U	1	0.234	0.433	1.73	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-62-2	Vanadium	6.98		1	0.433	0.433	1.73	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010
7440-66-6	Zinc	8.68		1	0.433	0.433	1.73	mg/Kg	08/14/18 10:35	08/14/18 19:43	SW6010

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	No
Comments:	NJ Cleanup Test New				

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

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

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Moisture:	3.3 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO048034.D	1	08/13/18 08:47	08/13/18 21:28	PB111973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
12674-11-2	Aroclor-1016	3.4	U	3.4	3.4	17.6	ug/kg
11104-28-2	Aroclor-1221	3.4	U	3.4	3.4	17.6	ug/kg
11141-16-5	Aroclor-1232	3.4	U	3.4	3.4	17.6	ug/kg
53469-21-9	Aroclor-1242	3.4	U	3.4	3.4	17.6	ug/kg
12672-29-6	Aroclor-1248	3.4	U	3.4	3.4	17.6	ug/kg
11097-69-1	Aroclor-1254	3.4	U	1.5	3.4	17.6	ug/kg
37324-23-5	Aroclor-1262	3.4	U	3.4	3.4	17.6	ug/kg
11100-14-4	Aroclor-1268	3.4	U	3.4	3.4	17.6	ug/kg
11096-82-5	Aroclor-1260	3.4	U	3.4	3.4	17.6	ug/kg
SURROGATES							
877-09-8	Tetrachloro-m-xylene	30.7		10 - 166		153%	SPK: 20
2051-24-3	Decachlorobiphenyl	26.4	*	60 - 125		132%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8081	% Moisture:	3.3 Decanted:
Sample Wt/Vol:	30.04 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE NJCLEAN Group New
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD048910.D	1	08/13/18 08:48	08/14/18 02:09	PB111974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
319-84-6	alpha-BHC	0.341	U	0.134	0.341	1.8	ug/kg
319-85-7	beta-BHC	0.341	U	0.186	0.341	1.8	ug/kg
58-89-9	gamma-BHC (Lindane)	0.341	U	0.155	0.341	1.8	ug/kg
76-44-8	Heptachlor	0.341	U	0.145	0.341	1.8	ug/kg
309-00-2	Aldrin	0.341	U	0.103	0.341	1.8	ug/kg
1024-57-3	Heptachlor epoxide	0.341	U	0.165	0.341	1.8	ug/kg
959-98-8	Endosulfan I	0.341	U	0.155	0.341	1.8	ug/kg
60-57-1	Dieldrin	0.341	U	0.134	0.341	1.8	ug/kg
72-55-9	4,4-DDE	0.341	U	0.207	0.341	1.8	ug/kg
72-20-8	Endrin	0.341	U	0.186	0.341	1.8	ug/kg
33213-65-9	Endosulfan II	0.341	U	0.145	0.341	1.8	ug/kg
72-54-8	4,4-DDD	0.341	U	0.176	0.341	1.8	ug/kg
1031-07-8	Endosulfan Sulfate	0.341	U	0.155	0.341	1.8	ug/kg
50-29-3	4,4-DDT	0.341	U	0.145	0.341	1.8	ug/kg
72-43-5	Methoxychlor	0.341	U	0.176	0.341	1.8	ug/kg
5103-71-9	alpha-Chlordane	0.341	U	0.145	0.341	1.8	ug/kg
5103-74-2	gamma-Chlordane	0.341	U	0.134	0.341	1.8	ug/kg
8001-35-2	Toxaphene	3.4	U	3.4	3.4	17.6	ug/kg
SURROGATES							
2051-24-3	Decachlorobiphenyl	22.3		10 - 169		112%	SPK: 20
877-09-8	Tetrachloro-m-xylene	32.5	*	31 - 151		162%	SPK: 20

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Report of Analysis

Client:	ENTACT		Date Collected:	08/10/18	
Project:	Jersey City		Date Received:	08/10/18	
Client Sample ID:	TILCON-PL-001		SDG No.:	J4449	
Lab Sample ID:	J4449-02		Matrix:	SOIL	
Analytical Method:	SW8081		% Moisture:	3.3	Decanted:
Sample Wt/Vol:	30.04	Units: g	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	PESTICIDE NJCLEAN Group New	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD048910.D	1	08/13/18 08:48	08/14/18 02:09	PB111974

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8270	% Moisture:	3.3
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108157.D	1	08/13/18 08:05	08/14/18 20:50	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
62-75-9	n-Nitrosodimethylamine	68.7	U	17.6	68.7	340	ug/Kg
100-52-7	Benzaldehyde	34.4	U	17.9	34.4	340	ug/Kg
108-95-2	Phenol	34.4	U	7.9	34.4	340	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	34.4	U	16.5	34.4	340	ug/Kg
95-57-8	2-Chlorophenol	34.4	U	18.1	34.4	340	ug/Kg
95-48-7	2-Methylphenol	34.4	U	18.7	34.4	340	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	34.4	U	14.2	34.4	340	ug/Kg
98-86-2	Acetophenone	34.4	U	10.5	34.4	340	ug/Kg
65794-96-9	3+4-Methylphenols	34.4	U	17.8	34.4	340	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	34.4	U	17.3	34.4	340	ug/Kg
67-72-1	Hexachloroethane	34.4	U	15.4	34.4	340	ug/Kg
98-95-3	Nitrobenzene	34.4	U	13	34.4	340	ug/Kg
78-59-1	Isophorone	34.4	U	11.3	34.4	340	ug/Kg
105-67-9	2,4-Dimethylphenol	34.4	U	19.5	34.4	340	ug/Kg
120-83-2	2,4-Dichlorophenol	34.4	U	13.1	34.4	340	ug/Kg
91-20-3	Naphthalene	34.4	U	11.9	34.4	340	ug/Kg
87-68-3	Hexachlorobutadiene	34.4	U	12.5	34.4	340	ug/Kg
105-60-2	Caprolactam	68.7	U	16	68.7	340	ug/Kg
91-57-6	2-Methylnaphthalene	34.4	U	8.7	34.4	340	ug/Kg
77-47-4	Hexachlorocyclopentadiene	34.4	U	8.3	34.4	340	ug/Kg
88-06-2	2,4,6-Trichlorophenol	34.4	U	10.5	34.4	340	ug/Kg
95-95-4	2,4,5-Trichlorophenol	34.4	U	24.1	34.4	340	ug/Kg
92-52-4	1,1-Biphenyl	34.4	U	13	34.4	340	ug/Kg
88-74-4	2-Nitroaniline	34.4	U	15.3	34.4	340	ug/Kg
208-96-8	Acenaphthylene	34.4	U	8.7	34.4	340	ug/Kg
606-20-2	2,6-Dinitrotoluene	34.4	U	14	34.4	340	ug/Kg
83-32-9	Acenaphthene	34.4	U	9.7	34.4	340	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	34.9	270	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	34.4	U	10.3	34.4	340	ug/Kg
84-66-2	Diethylphthalate	34.4	U	5.4	34.4	340	ug/Kg
86-73-7	Fluorene	34.4	U	13	34.4	340	ug/Kg

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Report of Analysis

Client:	ENTACT			Date Collected:	08/10/18
Project:	Jersey City			Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001			SDG No.:	J4449
Lab Sample ID:	J4449-02			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	3.3
Sample Wt/Vol:	30.1	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108157.D	1	08/13/18 08:05	08/14/18 20:50	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
534-52-1	4,6-Dinitro-2-methylphenol	170	U	19.7	170	340	ug/Kg
86-30-6	n-Nitrosodiphenylamine	34.4	U	8.2	34.4	340	ug/Kg
103-33-3	Azobenzene	34.4	U	8	34.4	340	ug/Kg
118-74-1	Hexachlorobenzene	34.4	U	14	34.4	340	ug/Kg
1912-24-9	Atrazine	34.4	U	18.1	34.4	340	ug/Kg
87-86-5	Pentachlorophenol	34.4	U	23.5	34.4	340	ug/Kg
85-01-8	Phenanthrene	34.4	U	9.3	34.4	340	ug/Kg
120-12-7	Anthracene	34.4	U	7	34.4	340	ug/Kg
86-74-8	Carbazole	34.4	U	7.5	34.4	340	ug/Kg
84-74-2	Di-n-butylphthalate	34.4	U	27	34.4	340	ug/Kg
206-44-0	Fluoranthene	34.4	U	6.9	34.4	340	ug/Kg
92-87-5	Benzidine	68.7	U	34.5	68.7	340	ug/Kg
129-00-0	Pyrene	34.4	U	8.2	34.4	340	ug/Kg
85-68-7	Butylbenzylphthalate	34.4	U	16.5	34.4	340	ug/Kg
91-94-1	3,3-Dichlorobenzidine	34.4	U	22.1	34.4	340	ug/Kg
56-55-3	Benzo(a)anthracene	34.4	U	16.4	34.4	340	ug/Kg
218-01-9	Chrysene	34.4	U	15.6	34.4	340	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	34.4	U	12.2	34.4	340	ug/Kg
117-84-0	Di-n-octyl phthalate	34.4	U	3.9	34.4	340	ug/Kg
205-99-2	Benzo(b)fluoranthene	34.4	U	11.2	34.4	340	ug/Kg
207-08-9	Benzo(k)fluoranthene	34.4	U	16.2	34.4	340	ug/Kg
50-32-8	Benzo(a)pyrene	34.4	U	7.4	34.4	340	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	34.4	U	11.4	34.4	340	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	34.4	U	9.9	34.4	340	ug/Kg
191-24-2	Benzo(g,h,i)perylene	34.4	U	13.9	34.4	340	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	110		28 - 127		73%	SPK: 150
13127-88-3	Phenol-d6	110		34 - 127		71%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.6		31 - 132		83%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.4		39 - 123		92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		30 - 133		74%	SPK: 150
1718-51-0	Terphenyl-d14	92.1		37 - 115		92%	SPK: 100

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Report of Analysis

Client:	ENTACT			Date Collected:	08/10/18
Project:	Jersey City			Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001			SDG No.:	J4449
Lab Sample ID:	J4449-02			Matrix:	SOIL
Analytical Method:	SW8270			% Moisture:	3.3
Sample Wt/Vol:	30.1	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS NJ CleanGroup Ne
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF108157.D	1	08/13/18 08:05	08/14/18 20:50	PB111971

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	188155	7.02				
1146-65-2	Naphthalene-d8	657136	8.3				
15067-26-2	Acenaphthene-d10	285196	10.07				
1517-22-2	Phenanthrene-d10	492590	11.56				
1719-03-5	Chrysene-d12	437046	14.21				
1520-96-3	Perylene-d12	285490	15.78				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	3.3
Sample Wt/Vol:	3.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059761.D	1		08/14/18 04:13	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
75-71-8	Dichlorodifluoromethane	0.66	U	0.66	0.66	6.6	ug/Kg
74-87-3	Chloromethane	0.66	U	0.66	0.66	6.6	ug/Kg
75-01-4	Vinyl Chloride	0.66	U	0.66	0.66	6.6	ug/Kg
74-83-9	Bromomethane	1.3	U	1.3	1.3	6.6	ug/Kg
75-00-3	Chloroethane	0.66	U	0.66	0.66	6.6	ug/Kg
75-69-4	Trichlorofluoromethane	0.66	U	0.66	0.66	6.6	ug/Kg
75-65-0	Tert butyl alcohol	33	U	9.8	33	33	ug/Kg
75-35-4	1,1-Dichloroethene	0.66	U	0.66	0.66	6.6	ug/Kg
107-02-8	Acrolein	33	U	5.2	33	33	ug/Kg
107-13-1	Acrylonitrile	3.3	U	3.3	3.3	33	ug/Kg
67-64-1	Acetone	3.3	U	3.3	3.3	33	ug/Kg
75-15-0	Carbon Disulfide	0.66	U	0.66	0.66	6.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.66	U	0.66	0.66	6.6	ug/Kg
79-20-9	Methyl Acetate	1.3	U	1.3	1.3	6.6	ug/Kg
75-09-2	Methylene Chloride	0.66	U	0.66	0.66	6.6	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.66	U	0.66	0.66	6.6	ug/Kg
75-34-3	1,1-Dichloroethane	0.66	U	0.66	0.66	6.6	ug/Kg
78-93-3	2-Butanone	9.9	U	4.1	9.9	33	ug/Kg
56-23-5	Carbon Tetrachloride	0.66	U	0.66	0.66	6.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.66	U	0.66	0.66	6.6	ug/Kg
67-66-3	Chloroform	0.66	U	0.66	0.66	6.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.66	U	0.66	0.66	6.6	ug/Kg
71-43-2	Benzene	0.66	U	0.5	0.66	6.6	ug/Kg
107-06-2	1,2-Dichloroethane	0.66	U	0.66	0.66	6.6	ug/Kg
79-01-6	Trichloroethene	0.66	U	0.66	0.66	6.6	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.34	0.66	6.6	ug/Kg
75-27-4	Bromodichloromethane	0.66	U	0.66	0.66	6.6	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.3	U	3.3	3.3	33	ug/Kg
108-88-3	Toluene	0.66	U	0.66	0.66	6.6	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.66	U	0.66	0.66	6.6	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.66	U	0.66	0.66	6.6	ug/Kg
79-00-5	1,1,2-Trichloroethane	1.3	U	1.2	1.3	6.6	ug/Kg

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Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	3.3
Sample Wt/Vol:	3.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059761.D	1		08/14/18 04:13	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	0.66	U	0.66	0.66	6.6	ug/Kg
106-93-4	1,2-Dibromoethane	0.66	U	0.66	0.66	6.6	ug/Kg
127-18-4	Tetrachloroethene	0.66	U	0.66	0.66	6.6	ug/Kg
108-90-7	Chlorobenzene	0.66	U	0.66	0.66	6.6	ug/Kg
100-41-4	Ethyl Benzene	0.66	U	0.66	0.66	6.6	ug/Kg
179601-23-1	m/p-Xylenes	1.3	U	0.95	1.3	13.2	ug/Kg
1330-20-7	Total Xylenes	1.96	U	1.61	1.96	19.8	ug/Kg
95-47-6	o-Xylene	0.66	U	0.66	0.66	6.6	ug/Kg
100-42-5	Styrene	0.66	U	0.59	0.66	6.6	ug/Kg
75-25-2	Bromoform	2	U	0.98	2	6.6	ug/Kg
98-82-8	Isopropylbenzene	0.66	U	0.63	0.66	6.6	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.66	U	0.61	0.66	6.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	0.66	U	0.49	0.66	6.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	0.66	U	0.54	0.66	6.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	0.66	U	0.66	0.66	6.6	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	6.6	U	1.1	6.6	6.6	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	0.66	U	0.66	0.66	6.6	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.8		56 - 120		102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		57 - 135		100%	SPK: 50
2037-26-5	Toluene-d8	44.4		67 - 123		89%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.2		33 - 141		82%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	200946	5.65				
540-36-3	1,4-Difluorobenzene	260100	6.7				
3114-55-4	Chlorobenzene-d5	200350	10.69				
3855-82-1	1,4-Dichlorobenzene-d4	108297	12.91				

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

Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-02	Matrix:	SOIL
Analytical Method:	SW8260	% Moisture:	3.3
Sample Wt/Vol:	3.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCGCMS NJ CleanGroup N
GC Column:	RTX-VMS ID : 0.18	Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VD059761.D	1		08/14/18 04:13	VD081318

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-MH-001	SDG No.:	J4449
Lab Sample ID:	J4449-03	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	32.3	N	1	2.5	2.5	10	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7440-39-3	Barium	17.6	JN	1	4	12.5	50	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7440-41-7	Beryllium	1.3	JN	1	0.7	0.75	3	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7440-43-9	Cadmium	6.82		1	0.5	0.75	3	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7440-47-3	Chromium	18.5	N	1	1.1	1.25	5	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7439-92-1	Lead	275		1	1.5	1.5	6	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7439-97-6	Mercury	0.107	J	1	0.1	0.1	0.2	ug/L	08/13/18 12:11	08/14/18 13:05	SW7470A
7782-49-2	Selenium	23.7	N	1	4.8	5.0	10	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010
7440-22-4	Silver	18.8	N	1	1.25	1.25	5	ug/L	08/13/18 12:51	08/13/18 17:38	SW6010

Color Before:	Colorless	Clarity Before:		Texture:	Clear
Color After:	Colorless	Clarity After:		Artifacts:	Clear
Comments:	SPLP Mercury				

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

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

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

Report of Analysis

Client:	ENTACT	Date Collected:	08/10/18
Project:	Jersey City	Date Received:	08/10/18
Client Sample ID:	TILCON-PL-001	SDG No.:	J4449
Lab Sample ID:	J4449-04	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
7440-38-2	Arsenic	91.4	N	1	2.5	2.5	10	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7440-39-3	Barium	46.4	JN	1	4	12.5	50	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7440-41-7	Beryllium	5.44	N	1	0.7	0.75	3	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7440-43-9	Cadmium	33		1	0.5	0.75	3	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7440-47-3	Chromium	54	N	1	1.1	1.25	5	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7439-92-1	Lead	367		1	1.5	1.5	6	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7439-97-6	Mercury	0.1	U	1	0.1	0.1	0.2	ug/L	08/13/18 12:11	08/14/18 13:14	SW7470A
7782-49-2	Selenium	59.8	N	1	4.8	5.0	10	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010
7440-22-4	Silver	43.1	N	1	1.25	1.25	5	ug/L	08/13/18 12:51	08/13/18 20:15	SW6010

Color Before:	Colorless	Clarity Before:		Texture:	Clear
Color After:	Colorless	Clarity After:		Artifacts:	Clear
Comments:	SPLP Mercury				

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

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

RSA GEOLAB, LLC

1017 Greeley Avenue North
Union, New Jersey 07083
908-964-0786 (P)
www.RSAgeolab.com

Letter of Transmittal

Date: 8-22-18 Job No.: 889 Lab Log: 18-295

Attention: Jordan Hedvat
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

CC:

Re: J4562

Sample(s): 107-DGA-PL, 107-DGA-MH

Dear Steven,

Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D422 Washed Sieve Analysis
- ASTM D4318 Atterberg Limits
- ASTM D2487 USCS Classification
- ASTM D2216 Moisture Content
- ASTM D1557 Modified Proctor (Method C)

Regards,
RSA Geolab, LLC

Remarks: If you have any questions, please call 908-964-0786.

Signed: _____

Dr. Raza S. Ahmed
President RSA Geolab, LLC

RSA Geolab	MOISTURE CONTENTS TEST METHOD ASTM D-2216

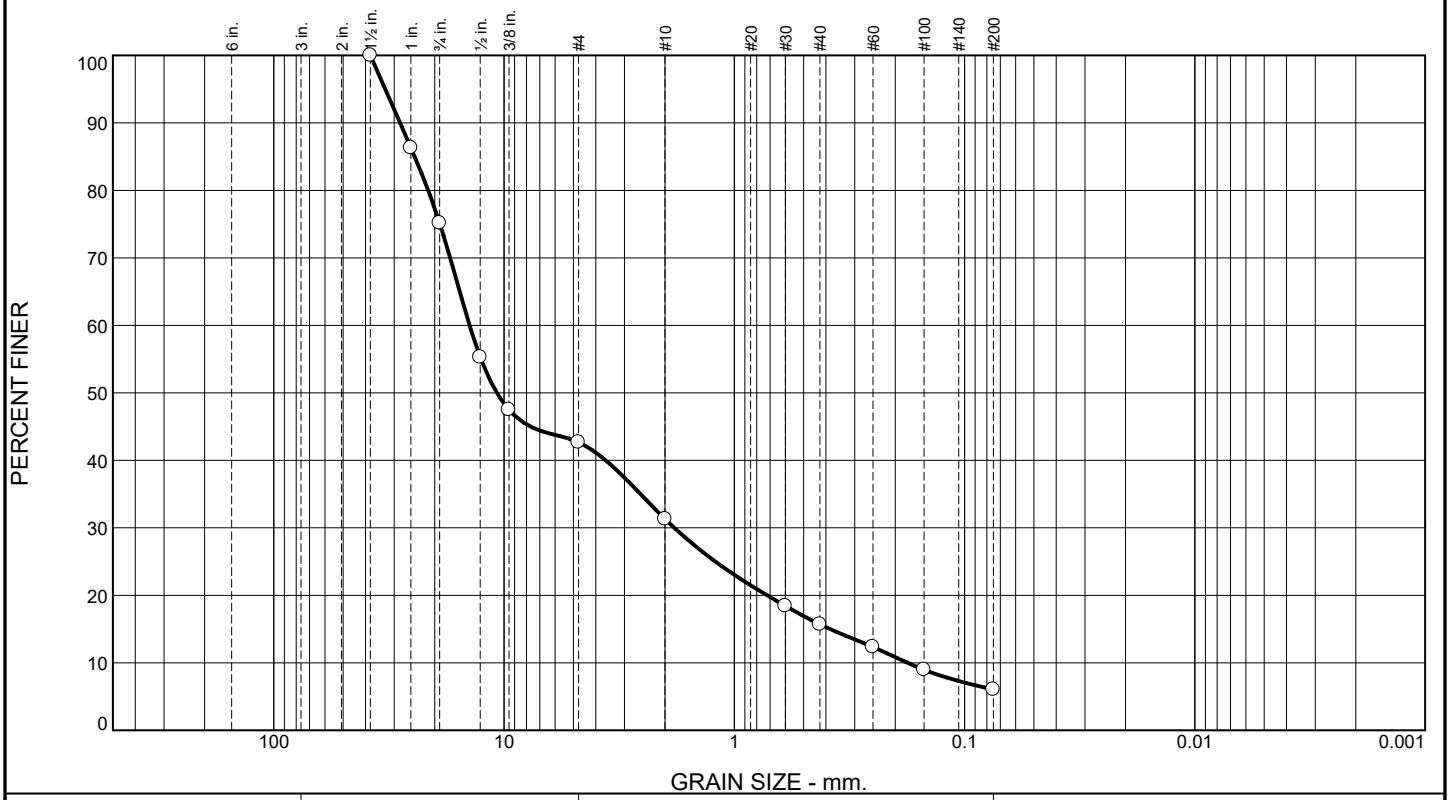
CLIENT:	CHEMTECH	**DATE:**	22-Aug-18
PROJECT:	J4562	**PROJECT #**	889

HOLE #/ SAMPLE #	107-DGA-PL	107-DGA-MH			
DEPTH					
WET WGT. + tare (gms.)	2992.3	3094.2			
DRY WGT. + tare (gms.)	2922.3	3026.6			
WGT. WATER (gms.)	70.0	67.6	0.0	0.0	0.0
TARE (gms.)	13.2	13.3			
DRY WGT. (gms.)	2909.1	3013.3	0.0	0.0	0.0
MOISTURE CONTENT	2.4%	2.2%			

HOLE #/ SAMPLE #					
DEPTH					
WET WGT. + tare (gms.)					
DRY WGT. + tare (gms.)					
WGT. WATER (gms.)	0.0	0.0	0.0	0.0	0.0
TARE (gms.)					
DRY WGT. (gms.)	0.0	0.0	0.0	0.0	0.0
MOISTURE CONTENT					

Performed by: EE Entered by: KH Checked by: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	24.8	32.5	11.4	15.6	9.7	6.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	86.3		
.75	75.2		
.5	55.3		
.375	47.5		
#4	42.7		
#10	31.3		
#30	18.4		
#40	15.7		
#60	12.3		
#100	9.0		
#200	6.0		

* (no specification provided)

Material Description

Gray well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 28.3078 D_{85}= 24.4772 D_{60}= 14.1188
D_{50}= 10.7612 D_{30}= 1.8224 D_{15}= 0.3838
D_{10}= 0.1767 C_u= 79.89 C_c= 1.33

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

Sample Number: 107-DGA-MH

Date: 8-22-18

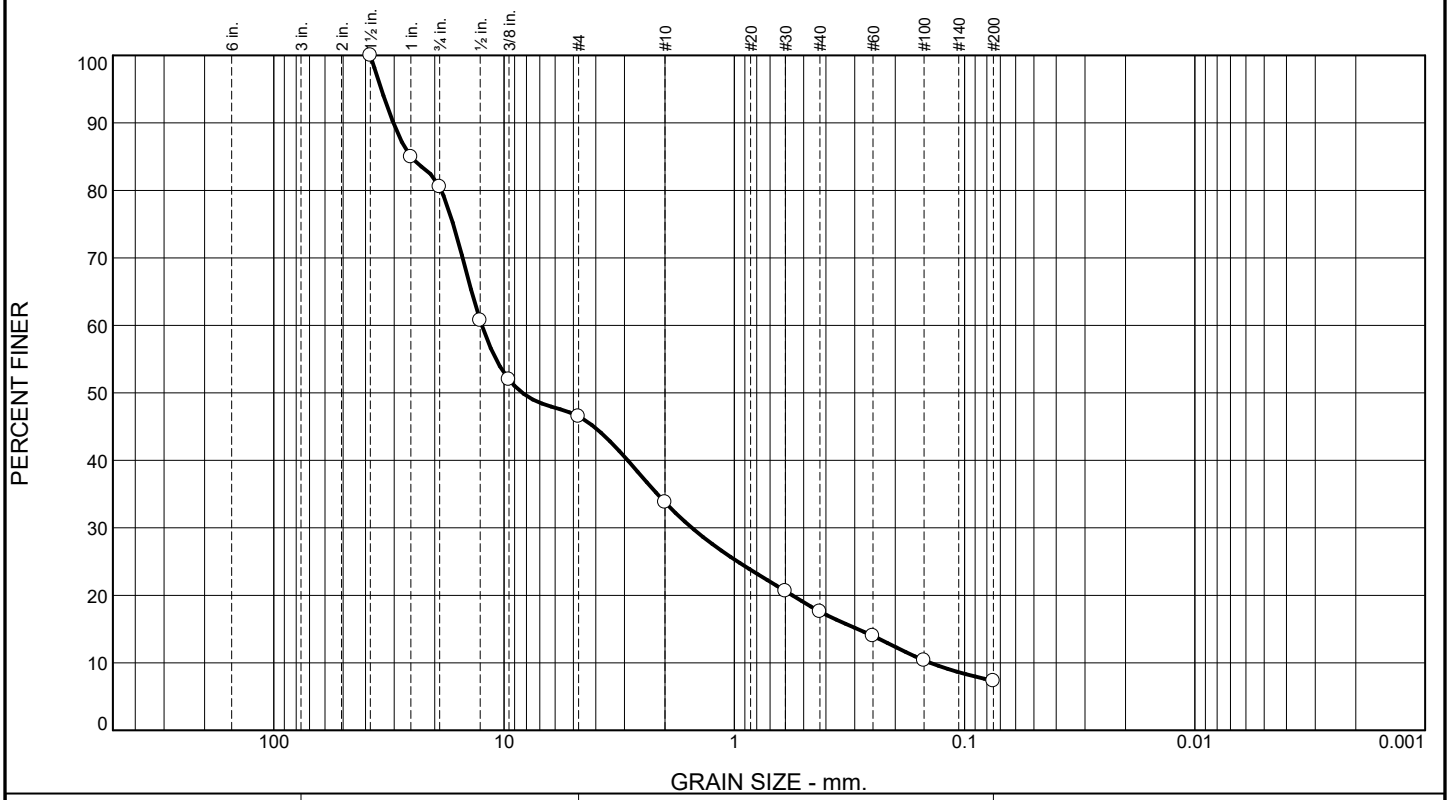
RSA Geolab

Union, New Jersey

Client: CHEMTECH
Project: J4562
Project No: 889 **Figure**

Tested By: RP **Checked By:** KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.5	34.0	12.7	16.2	10.3	7.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	85.0		
.75	80.5		
.5	60.7		
.375	52.0		
#4	46.5		
#10	33.8		
#30	20.6		
#40	17.6		
#60	14.0		
#100	10.4		
#200	7.3		

* (no specification provided)

Material Description

Gray well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 30.2580 D_{85}= 25.4624 D_{60}= 12.4938
D_{50}= 8.3299 D_{30}= 1.5282 D_{15}= 0.2918
D_{10}= 0.1411 C_u= 88.56 C_c= 1.32

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

Sample Number: 107-DGA-PL

Date: 8-22-18

RSA Geolab

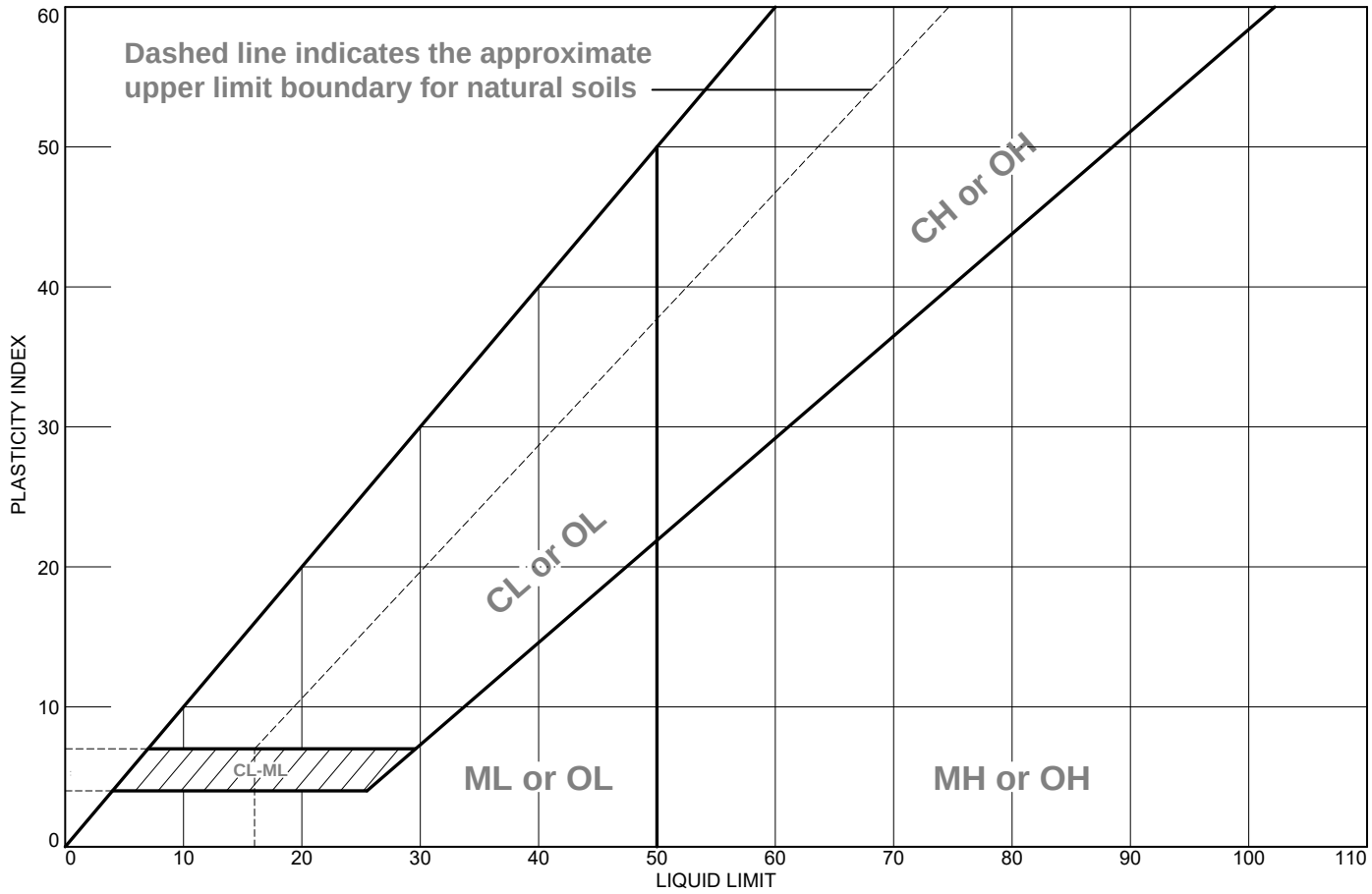
Union, New Jersey

Client: CHEMTECH
Project: J4562
Project No: 889

Figure

Tested By: RP **Checked By:** KP

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Gray well-graded gravel with silt and sand	NV	NP	NP	17.6	7.3	GW-GM
■	Gray well-graded gravel with silt and sand	NV	NP	NP	15.7	6.0	GW-GM

Project No. 889 **Client:** CHEMTECH

Project: J4562

●**Sample Number:** 107-DGA-PL

■**Sample Number:** 107-DGA-MH

Remarks:

●8-22-18

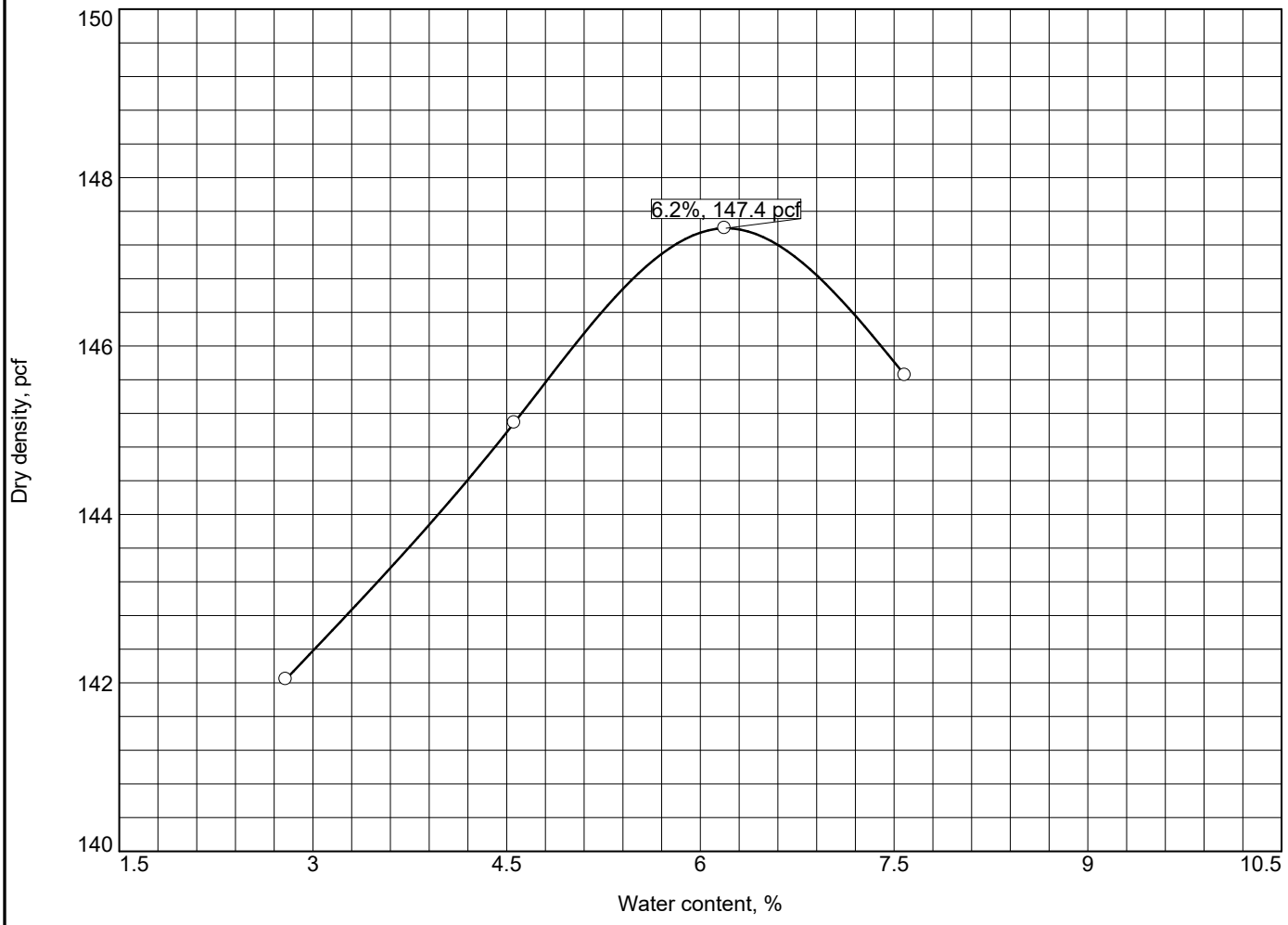
RSA Geolab

Union, New Jersey

Figure

Tested By: RP **Checked By:** KP

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GW-GM	A-1-a		2.8	NV	NP	24.8	6.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 147.4 pcf	140.2 pcf	Gray well-graded gravel with silt and sand
Optimum moisture = 6.2 %	6.2 %	

Project No. 889 **Client:** CHEMTECH
Project: J4562

○ **Sample Number:** 107-DGA-MH

RSA Geolab

Union, New Jersey

Remarks:
SG Assumed
8-22-18

Figure

Tested By: GS **Checked By:** KP

COMPACTION TEST REPORT

Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GW-GM	A-1-a		2.8	NV	NP	19.5	7.3

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 143.9 pcf	138.0 pcf	Gray well-graded gravel with silt and sand
Optimum moisture = 7.1 %	7.1 %	

Project No. 889 **Client:** CHEMTECH
Project: J4562

○ **Sample Number:** 107-DGA-PL

RSA Geolab

Union, New Jersey

Remarks:
SG Assumed
8-22-18

Figure

Tested By: GS **Checked By:** KP

TILCON NEW YORK INC.

PHONE: 973-366-7741 9 ENTIN ROAD, PARSIPPANY , New Jersey 07054

2019 Clean Fill Material Certification- *NJ Locations Only*

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials and conform to section 901 of the *2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*, The material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality List (QPL) of the NJDOT website

http://www.state.nj.us/transportation/eng/materials/qualified/QPRDB.shtm

Pompton Lakes Quarry- Granite Gneiss, 84 Borough of Pompton Lakes, Passaic County Blocks No(s) 105- Lot(s) 84. NJDOT approved crushed stone and certified fill products.

Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot(s) 5.01,5.02,7; Block 70001 Lot No 2;Block No 20101 Lot No 6. Mt Hope quarry contains NJDOT approved crushed stone, washed products and certified fill products.

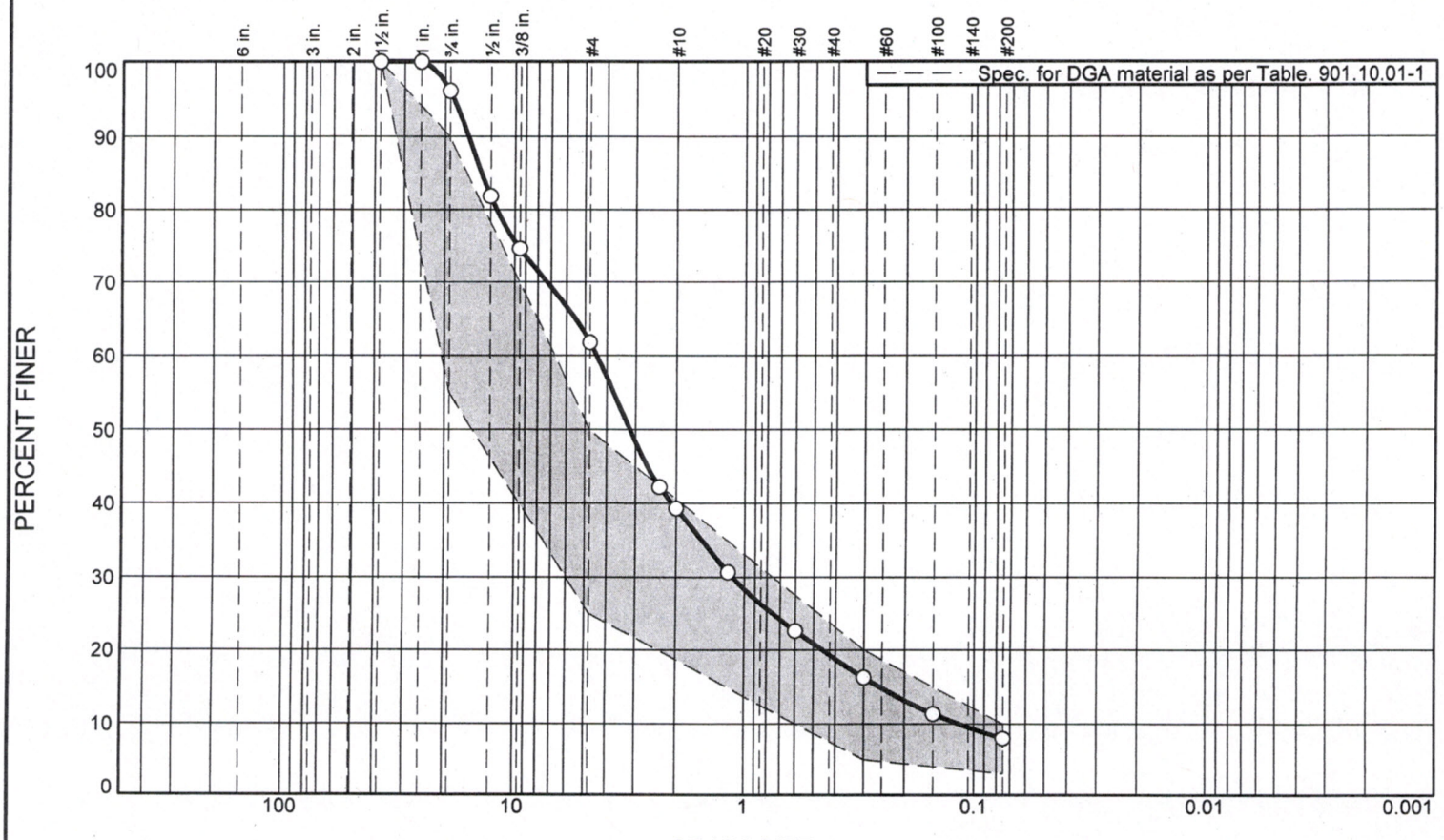
Tilcon NY Inc. has had Pompton Lakes and Mt Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the above quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry- Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Block No9s0 25, 26, 27, 29 Lot No 3. Riverdale Quarry NJDOT approved crushed stone, washed products and certified fill materials.

Oxford Quarry- Granite Gneiss and Limestone , Quarry and Mt Pisgah Avenue, White Township , Warren County Block 32- Lots 15,16 Block 33- Lots 22,23 Block 34 Lots 19,20 Block 25- Lots 3,5,9,90.1 NJDOT approved crushed stone ,washed products and certified materials .

Tilcon New York, INC Quality Control 973-659-3790

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.9	34.4	22.4	20.0	11.3	8.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	100.0		
3/4	96.1	55.0 - 90.0	X
1/2	81.9		
3/8	74.6		
#4	61.7	25.0 - 50.0	X
#8	42.2		
#10	39.3		
#16	30.6		
#30	22.6		
#50	16.3	5.0 - 20.0	
#100	11.3		
#200	8.0	3.0 - 10.0	

* Spec. for DGA material as per Table. 901.10.01-1

Material Description

DGA material. well-graded sand with silt and gravel

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 15.8231 D_{85}= 13.8778 D_{60}= 4.4457
D_{50}= 3.1828 D_{30}= 1.1290 D_{15}= 0.2565
D_{10}= 0.1167 C_u= 38.11 C_c= 2.46

Classification

USCS= SW-SM AASHTO= A-1-a

Remarks

Sample was collected by Mr. Daniel on 03/14/19 and tested on 03/18/19. In-Situ %MC=4.2
F.M.=4.45

Location: 107-DGA-PL
Sample Number: S-9

Date: 03/18/2019

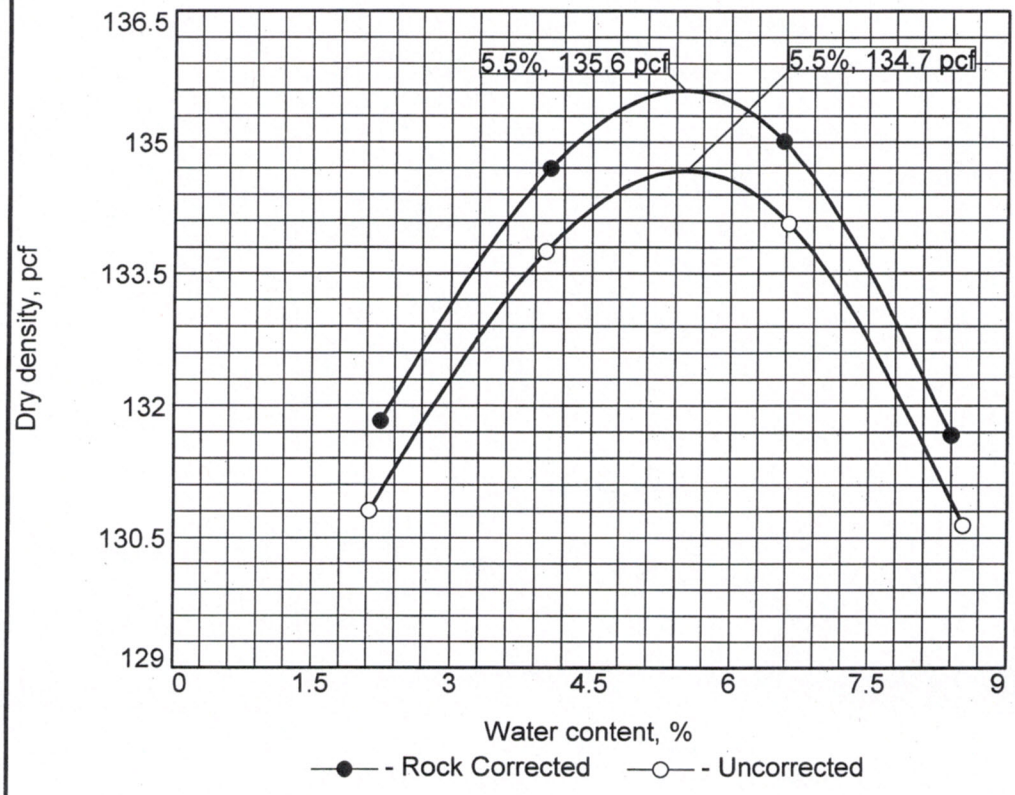
ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Entact
Project: 143 Chaple Avenue, Jersey City, NJ

Project No: AOE-3667 **Figure 9 F 1**

COMPACTION TEST REPORT



Curve No.
S-9

Test Specification:
ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to

Hammer Wt.: 10 lb.
Hammer Drop: 18 in.
Number of Layers: five
Blows per Layer: 56
Mold Size: 0.075 cu. ft.

Test Performed on Material Passing 3/4 in. **Sieve**

Soil Data

NM _____ **Sp.G.** _____
LL NV **PI** NP
%>3/4 in. 3.9 **%<#200** 8.0
USCS SW-SM **AASHTO** A-1-a

TESTING DATA

	1	2	3	4	5	6
WM + WS	23.95	24.37	24.66	24.57		
WM	13.94	13.94	13.94	13.94		
WW + T #1	796.4	713.2	899.3	888.0		
WD + T #1	779.8	685.7	843.4	818.2		
TARE #1	0.0	0.0	0.0	0.0		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	2.2	4.1	6.6	8.4		
DRY DENSITY	131.8	134.7	135.0	131.7		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	Material Description
Maximum dry density = 135.6 pcf	134.7 pcf	DGA material. well-graded sand with silt and gravel
Optimum moisture = 5.5 %	5.5 %	

Project No. AOE-3667 **Client:** Entact
Project: 143 Chaple Avenue, Jersey City, NJ

○ **Location:** 107-DGA-PL **Sample Number:** S-9

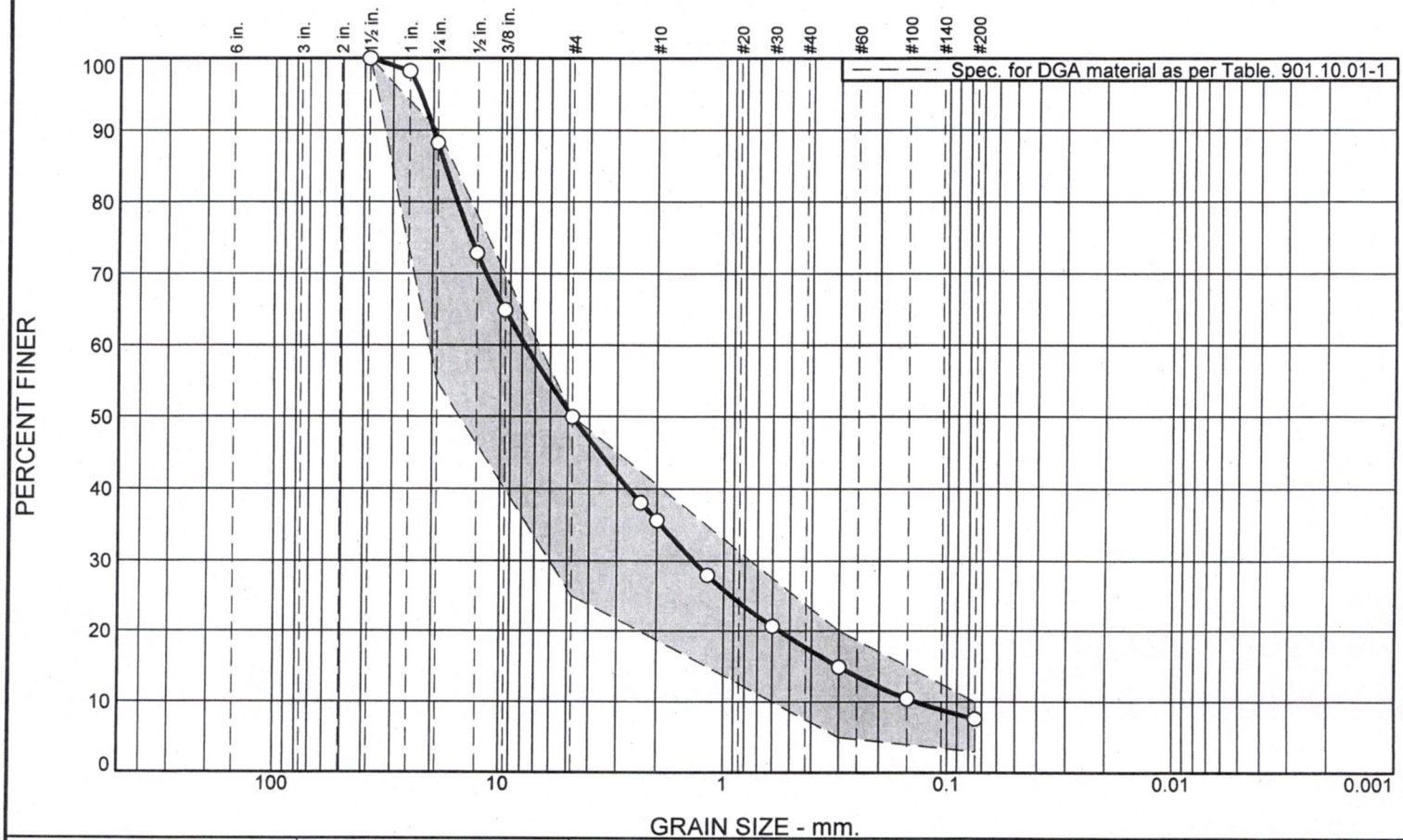
ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Remarks:
Sample was collected by Mr. Daniel on 03/14/19 and tested on 03/17/19.

Figure 9 F 2

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	11.8	38.3	14.3	18.0	10.0	7.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0	100.0	
1	98.2		
3/4	88.2	55.0 - 90.0	
1/2	72.9		
3/8	64.9		
#4	49.9	25.0 - 50.0	
#8	38.1		
#10	35.6		
#16	27.9		
#30	20.7		
#50	14.9	5.0 - 20.0	
#100	10.4		
#200	7.6	3.0 - 10.0	

* Spec. for DGA material as per Table. 901.10.01-1

Material Description

DGA material. well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 19.9167 D_{85}= 17.6113 D_{60}= 7.7491
D_{50}= 4.7652 D_{30}= 1.3719 D_{15}= 0.3050
D_{10}= 0.1373 C_u= 56.45 C_c= 1.77

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

Sample was collected by Mr. Daniel on 03/14/19 and tested on 03/18/19. In-Situ %MC=4.3
F.M.=4.85

Location: 107- DGA-MH
Sample Number: S-8

Date: 03/18/2019

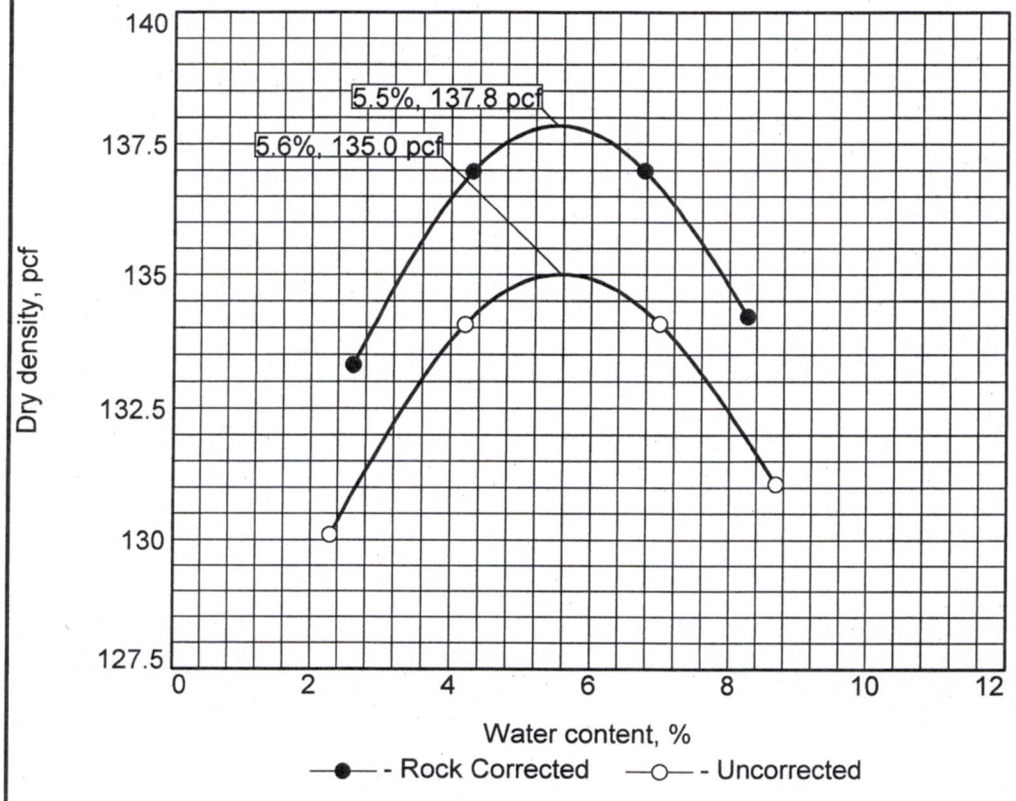
ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Entact
Project: 143 Chaple Avenue, Jersey City, NJ

Project No: AOE-3667 **Figure 8 F 1**

COMPACTION TEST REPORT



Curve No.
S-8

Test Specification:
ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to

Hammer Wt.: 10 lb.
Hammer Drop: 18 in.
Number of Layers: five
Blows per Layer: 56
Mold Size: 0.075 cu. ft.

Test Performed on Material Passing 3/4 in. **Sieve**

Soil Data

NM _____ **Sp.G.** _____
LL NV **PI** NP
%>3/4 in. 11.8 **%<#200** 7.6
USCS GW-GM **AASHTO** A-1-a

TESTING DATA

	1	2	3	4	5	6
WM + WS	23.92	24.41	24.69	24.62		
WM	13.94	13.94	13.94	13.94		
WW + T #1	862.2	801.5	964.3	894.4		
WD + T #1	842.9	769.2	901.3	822.9		
TARE #1	0.0	0.0	0.0	0.0		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	2.6	4.3	6.8	8.3		
DRY DENSITY	133.3	137.0	137.0	134.2		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	Material Description
Maximum dry density = 137.8 pcf	135.0 pcf	DGA material. well-graded gravel with silt and sand
Optimum moisture = 5.5 %	5.6 %	

Project No. AOE-3667 **Client:** Entact
Project: 143 Chaple Avenue, Jersey City, NJ

○ **Location:** 107- DGA-MH **Sample Number:** S-8

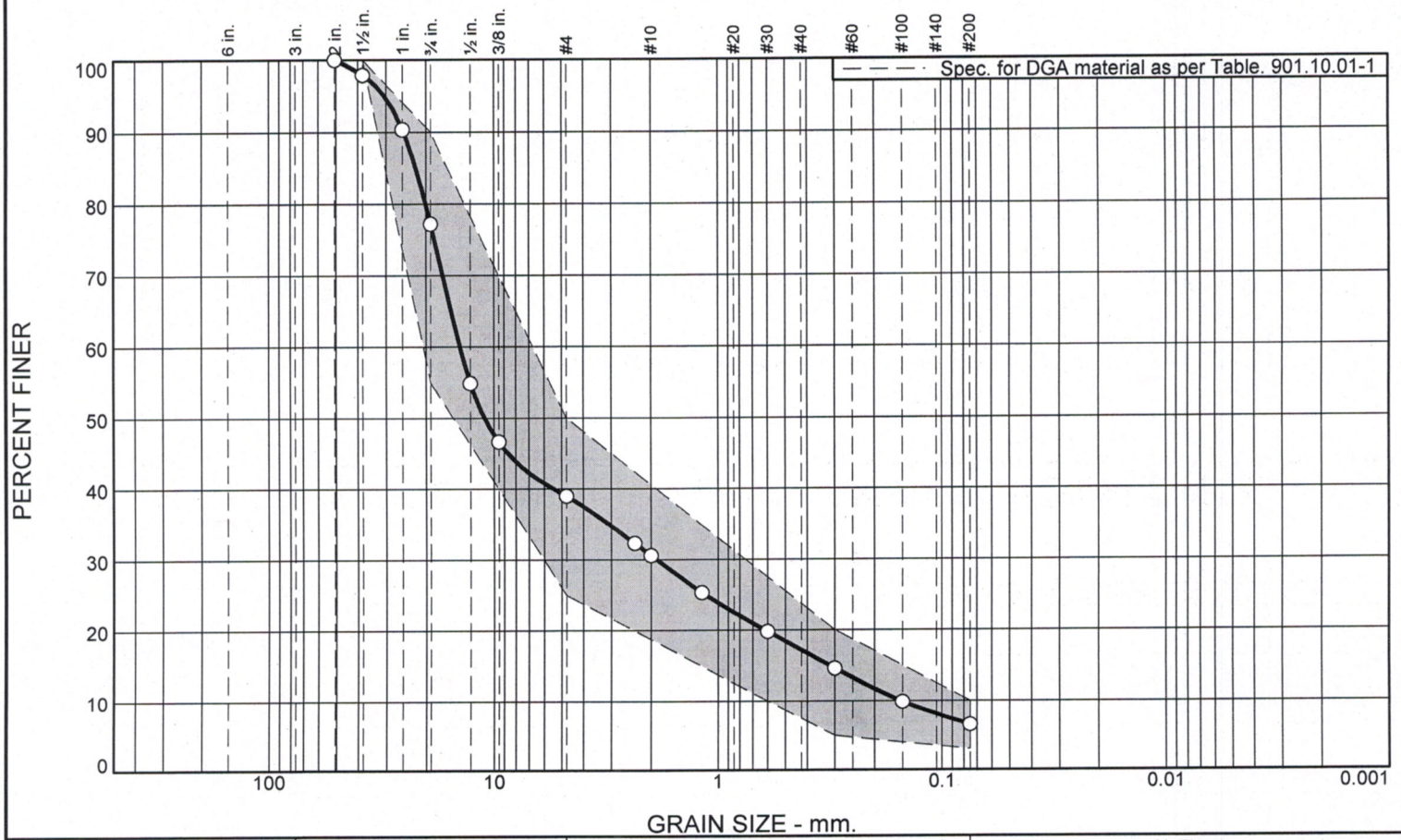
ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Remarks:
Sample was collected by Mr. Daniel on 03/14/19 and tested on 03/17/19.

Figure 8 F 2

Particle Size Distribution Report As per ASTM D 422



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	22.8	38.2	8.4	13.4	10.6	6.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	97.9	100.0	X
1	90.4		
3/4	77.2	55.0 - 90.0	
1/2	54.9		
3/8	46.6		
#4	39.0	25.0 - 50.0	
#8	32.3		
#10	30.6		
#16	25.3		
#30	19.8		
#50	14.6	5.0 - 20.0	
#100	9.9		
#200	6.6	3.0 - 10.0	

* Spec. for DGA material as per Table. 901.10.01-1

Material Description

DGA material. well-graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 25.1295 D_{85}= 22.1850 D_{60}= 14.1342
D_{50}= 11.0350 D_{30}= 1.8866 D_{15}= 0.3172
D_{10}= 0.1531 C_u= 92.31 C_c= 1.64

Classification

USCS= GW-GM AASHTO= A-1-a

Remarks

Sample was collected by Mr. Daniel on 03/28/19 and tested on 03/29/19. In-Situ %MC=1.4
F.M.=5.37

Location: 107-DGA-PL
Sample Number: S-10

Date: 03/29/2019

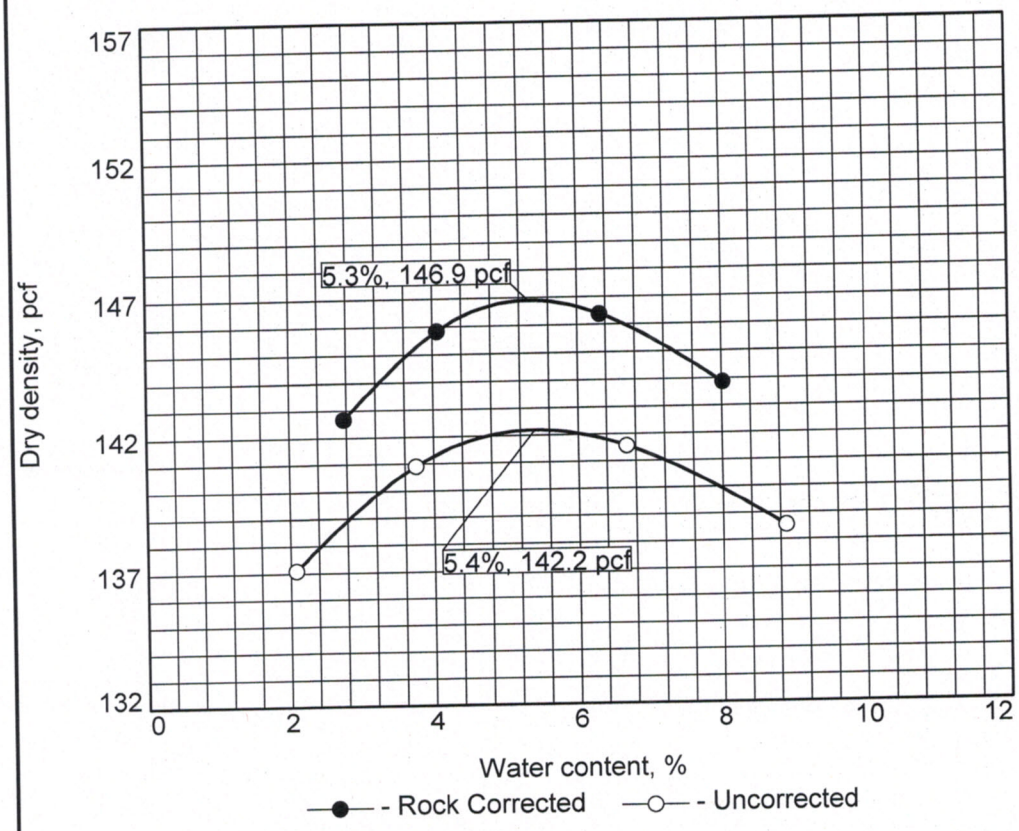
ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Client: Entact
Project: 143 Chaple Avenue, Jersey City, NJ

Project No: AOE-3667 **Figure 10 F 1**

COMPACTION TEST REPORT



Curve No.
S-10

Test Specification:
ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to

Hammer Wt.: 10 lb.
Hammer Drop: 18 in.
Number of Layers: five
Blows per Layer: 56
Mold Size: 0.075 cu. ft.

Test Performed on Material Passing 3/4 in. **Sieve**

Soil Data

NM _____ **Sp.G.** _____
LL NV **PI** NP
%>3/4 in. 22.8 **%<#200** 6.6
USCS GW-GM **AASHTO** A-1-a

TESTING DATA

	1	2	3	4	5	6
WM + WS	24.43	24.90	25.26	25.25		
WM	13.94	13.94	13.94	13.94		
WW + T #1	886.5	768.1	914.1	1004.2		
WD + T #1	868.5	740.3	856.9	922.3		
TARE #1	0.0	0.0	0.0	0.0		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	2.8	4.1	6.3	8.0		
DRY DENSITY	142.7	145.8	146.4	143.9		

ROCK CORRECTED TEST RESULTS	UNCORRECTED	Material Description
Maximum dry density = 146.9 pcf	142.2 pcf	DGA material. well-graded gravel with sil and sand
Optimum moisture = 5.3 %	5.4 %	

Project No. AOE-3667 **Client:** Entact
Project: 143 Chaple Avenue, Jersey City, NJ

○ **Location:** 107-DGA-PL **Sample Number:** S-10

ANS CONSULTANTS, INC.

South Plainfield, New Jersey

Remarks:
Sample was collected by Mr. Daniel on 03/28/19 and tested on 03/29/19.

Figure 10 F 2

RSA GEOLAB, LLC

1017 Greeley Avenue North
Union, New Jersey 07083
908-964-0786 (P)
www.RSAgeolab.com

Letter of Transmittal

Date: 8-30-19 Job No.: 889 Lab Log: 19-321

Attention: Tyler
CHEMTECH
284 Sheffield Street
Mountainside, NJ 07092

CC: Jordan Hedvat

Re: K4541 – PPG SITE 107

Sample(s): 107-SCREENINGS-PL-001, 107-SCREENINGS-PL-002, 107-DGA-PL-001, 107-DGA-PL-002, 107-SCREENINGS-MH-001, 107-SCREENINGS-MH-002

Dear Tyler,

Please find attached results for the samples referenced above. The following lab testing was performed:

- ASTM D422 Washed Sieve Analysis
- ASTM D2216 Moisture Content
- ASTM D4318 Atterberg Limits
- ASTM D1557 Modified Proctor

Regards,
RSA Geolab, LLC

Remarks: If you have any questions, please call 908-964-0786.

Signed: _____

Dr. Raza S. Ahmed
President RSA Geolab, LLC

RSA Geolab	MOISTURE CONTENTS TEST METHOD ASTM D-2216

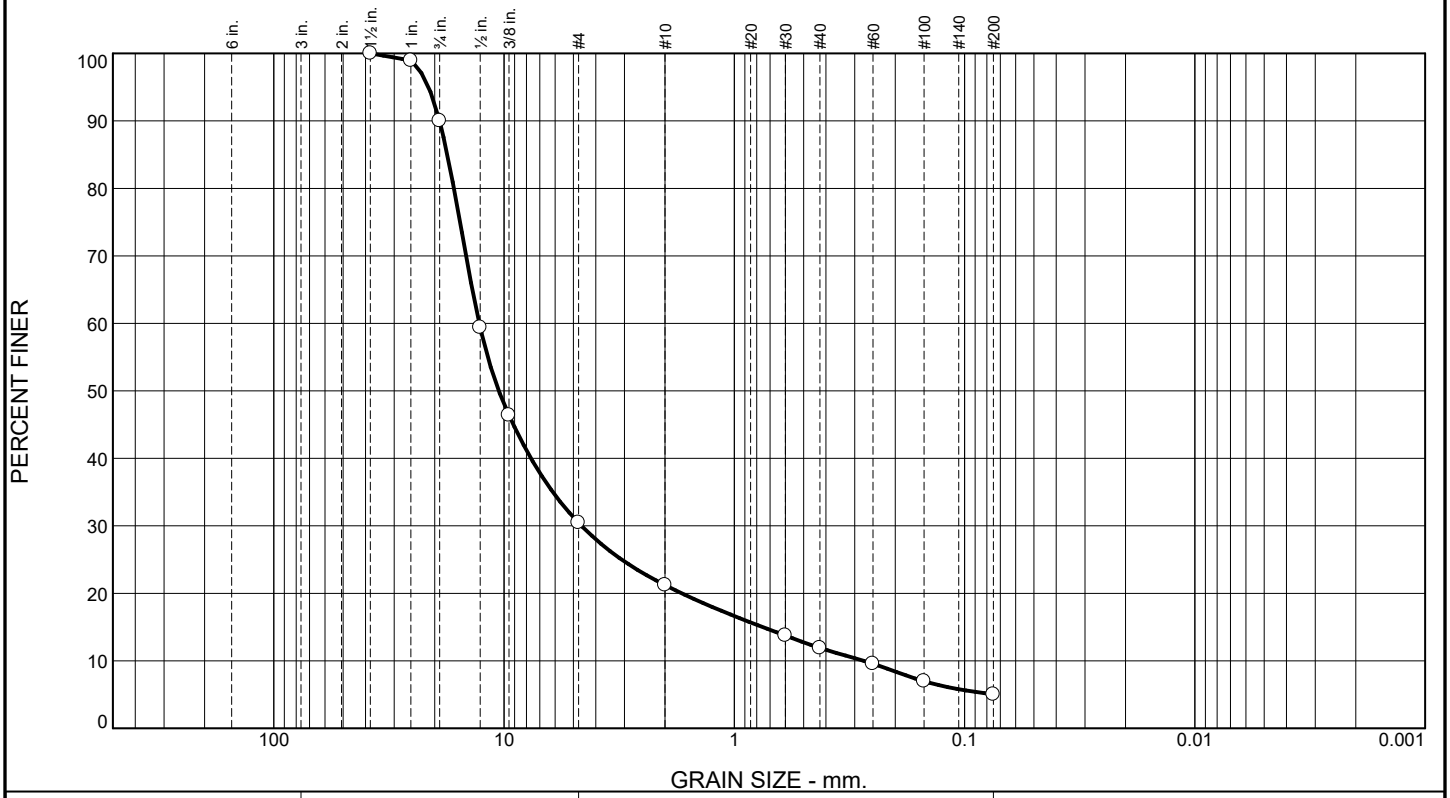
CLIENT:	CHEMTECH K4541	**DATE:**	30-Aug-19
PROJECT:	PPG Site 107	**PROJECT #**	889

HOLE #/ SAMPLE #	107-Screenings -PL-001	107-Screenings -PL-002	107-DGA -PL-001	107-DGA -PL-002	107-Screenings -MH-001
DEPTH					
WET WGT. + tare (gms.)	721.7	756.7	1954.5	1876.2	753.7
DRY WGT. + tare (gms.)	711.8	747.7	1916.6	1835.0	744.4
WGT. WATER (gms.)	9.9	9.0	37.9	41.2	9.3
TARE (gms.)	13.0	13.2	13.2	13.2	13.2
DRY WGT. (gms.)	698.8	734.5	1903.4	1821.8	731.3
MOISTURE CONTENT	1.4%	1.2%	2.0%	2.3%	1.3%

HOLE #/ SAMPLE #	107-Screenings -MH-002				
DEPTH					
WET WGT. + tare (gms.)	736.3				
DRY WGT. + tare (gms.)	727.7				
WGT. WATER (gms.)	8.6	0.0	0.0	0.0	0.0
TARE (gms.)	13.2				
DRY WGT. (gms.)	714.5	0.0	0.0	0.0	0.0
MOISTURE CONTENT	1.2%				

Performed by: EE Entered by: KH Checked by: KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.0	59.5	9.3	9.3	6.9	5.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
1	99.0		
.75	90.0		
.5	59.4		
.375	46.4		
#4	30.5		
#10	21.2		
#30	13.7		
#40	11.9		
#60	9.6		
#100	7.0		
#200	5.0		

* (no specification provided)

Material Description

Olive Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 19.0526 D_{85}= 17.6406 D_{60}= 12.8181
D_{50}= 10.5463 D_{30}= 4.6083 D_{15}= 0.7529
D_{10}= 0.2744 C_u= 46.71 C_c= 6.04

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Sample Number: 107-DGA-PL001

Date: 8-30-19

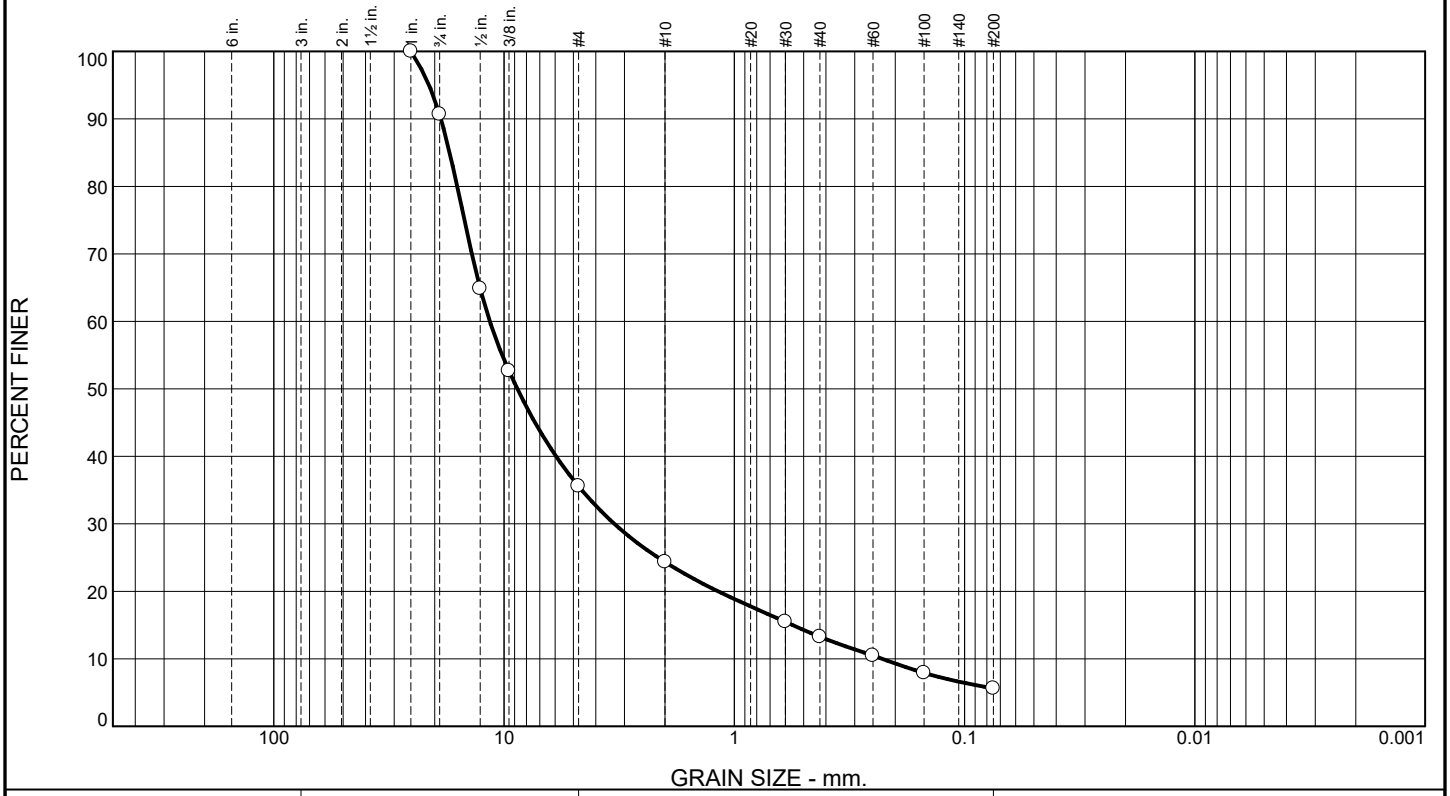
RSA Geolab

Union, New Jersey

Client: CHEMTECH
Project: K4541 - PPG Site 107
Project No: 889 **Figure**

Tested By: BP **Checked By:** KP

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.3	55.1	11.3	11.0	7.7	5.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	90.7		
.5	64.9		
.375	52.7		
#4	35.6		
#10	24.3		
#30	15.5		
#40	13.3		
#60	10.5		
#100	7.9		
#200	5.6		

* (no specification provided)

Material Description

Olive Gray poorly graded gravel with silt and sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D_{90}= 18.8003 D_{85}= 17.2392 D_{60}= 11.5447
D_{50}= 8.7565 D_{30}= 3.3178 D_{15}= 0.5582
D_{10}= 0.2280 C_u= 50.65 C_c= 4.18

Classification

USCS= GP-GM AASHTO= A-1-a

Remarks

Sample Number: 107-DGA-PL002

Date: 8-30-19

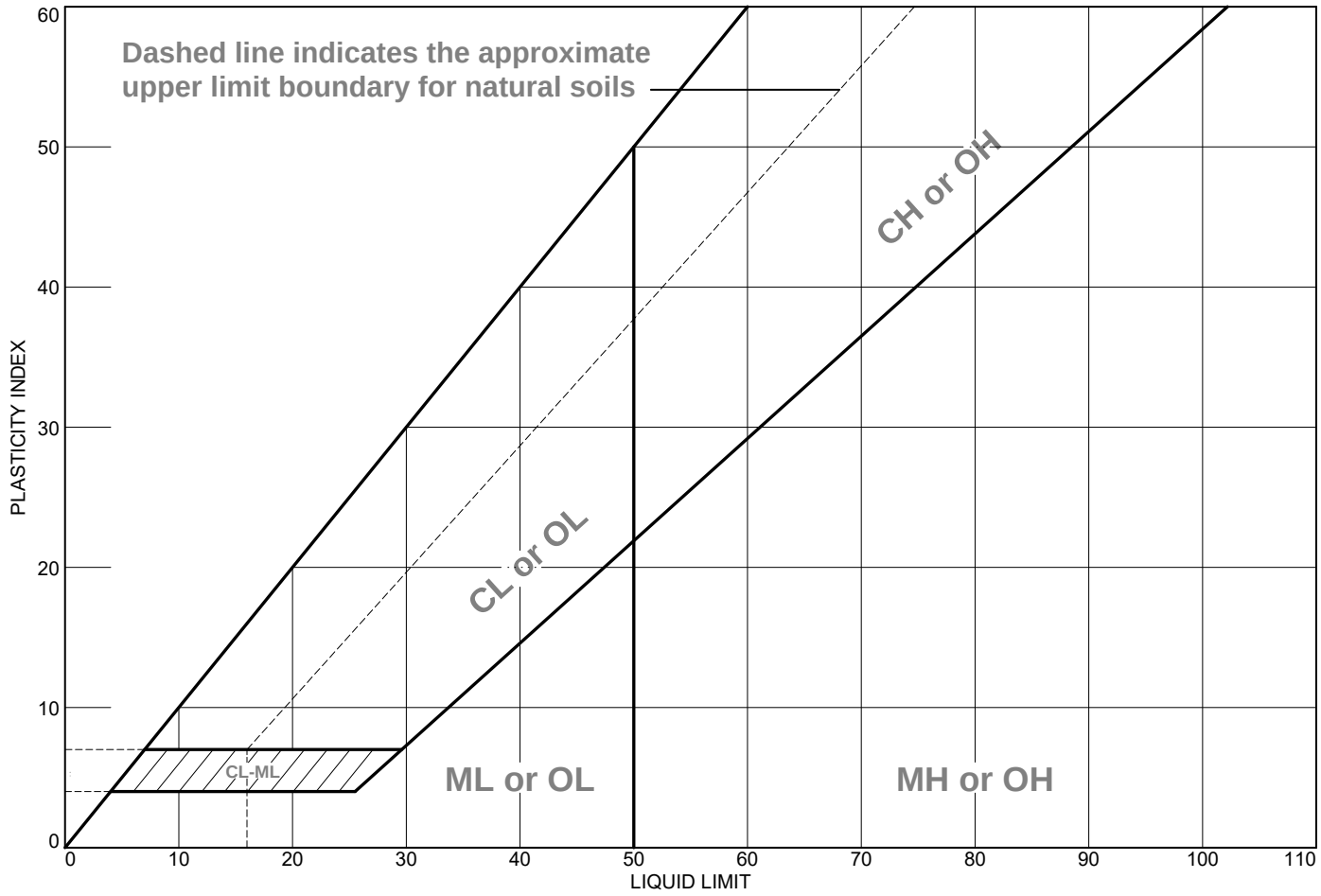
RSA Geolab

Union, New Jersey

Client: CHEMTECH
Project: K4541 - PPG Site 107
Project No: 889 **Figure**

Tested By: BP **Checked By:** KP

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Light Gray poorly graded sand with silt	NV	NP	NP	32.1	11.8	SP-SM
■	Light Gray poorly graded sand with silt	NV	NP	NP	31.6	11.7	SP-SM
▲	Olive Gray poorly graded gravel with silt and sand	NV	NP	NP	11.9	5.0	GP-GM
◆	Olive Gray poorly graded gravel with silt and sand	NV	NP	NP	13.3	5.6	GP-GM

Project No. 889 **Client:** CHEMTECH

Project: K4541 - PPG Site 107

●**Sample Number:** 107-SCREENINGS-PL001
■**Sample Number:** 107-SCREENINGS-PL002
▲**Sample Number:** 107-DGA-PL001
◆**Sample Number:** 107-DGA-PL002

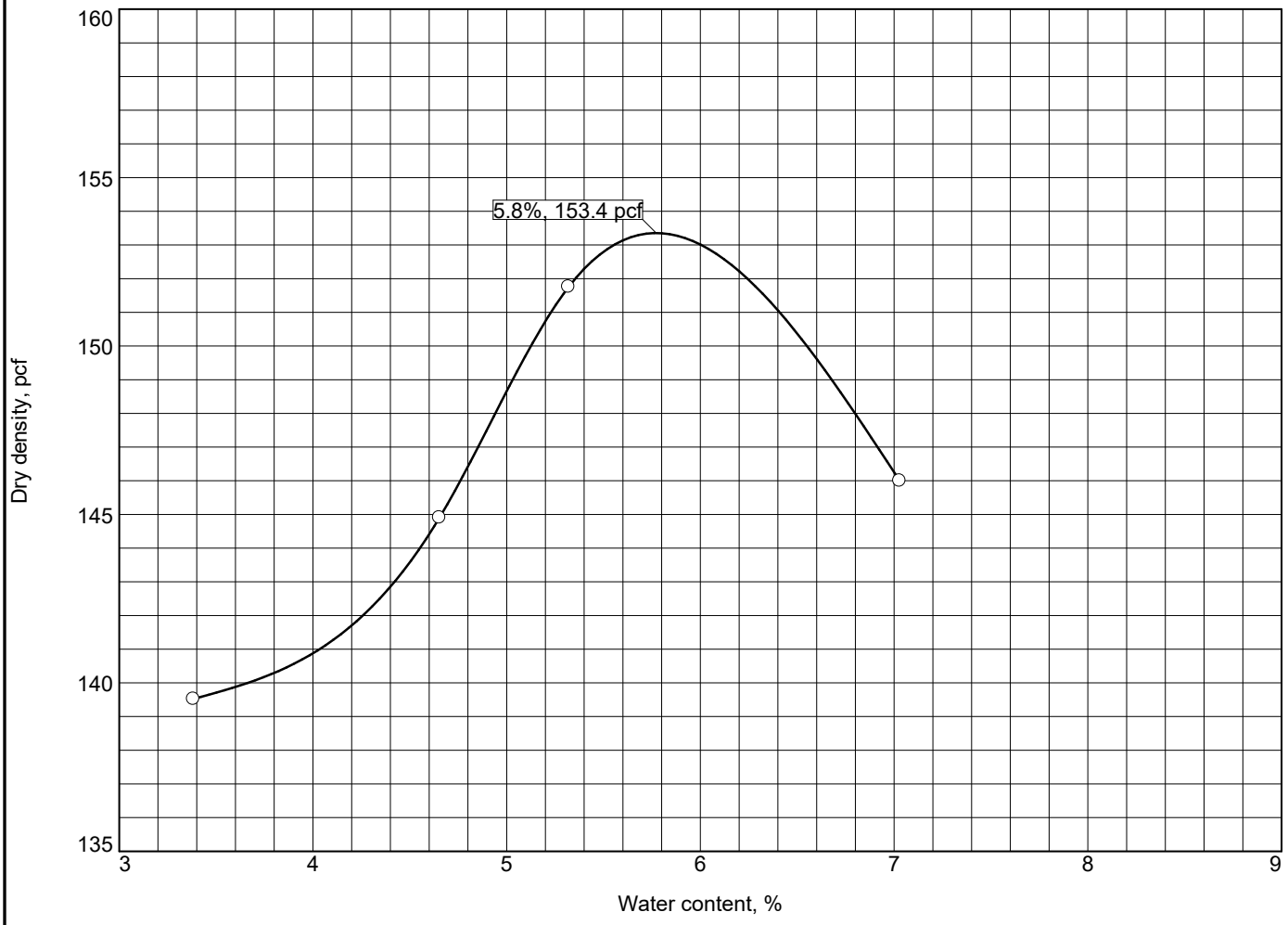
Remarks:
●8-30-19

RSA Geolab

Union, New Jersey

Figure

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP-GM	A-1-a		2.75	NV	NP	10.0	5.0

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 153.4 pcf	151.5 pcf	Olive Gray poorly graded gravel with silt and sand
Optimum moisture = 5.8 %	5.8 %	

Project No. 889 **Client:** CHEMTECH
Project: K4541 - PPG Site 107

○ **Sample Number:** 107-DGA-PL001

RSA Geolab

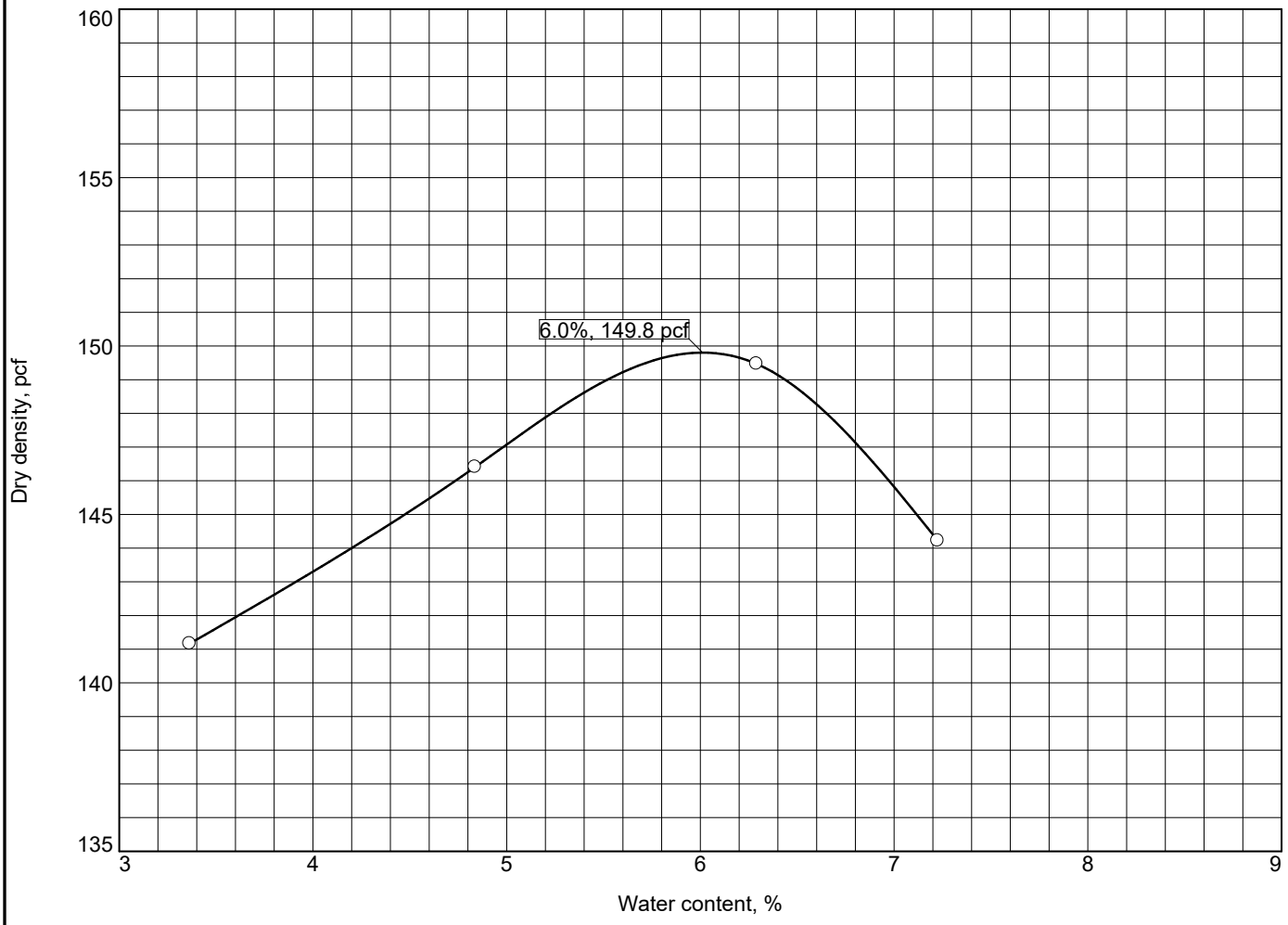
Union, New Jersey

Remarks:
SG Assumed
8-30-19

Figure

Tested By: BP **Checked By:** KP

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP-GM	A-1-a		2.75	NV	NP	9.3	5.6

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 149.8 pcf	147.9 pcf	Olive Gray poorly graded gravel with silt and sand
Optimum moisture = 6.0 %	6.0 %	

Project No. 889 **Client:** CHEMTECH
Project: K4541 - PPG Site 107

○ **Sample Number:** 107-DGA-PL002

RSA Geolab

Union, New Jersey

Remarks:
SG Assumed
8-30-19

Figure

Tested By: BP **Checked By:** KP

TILCON NEW YORK INC.

PHONE: 973-366-7741 9 ENTIN ROAD, PARSIPPANY , New Jersey 07054

2021 Clean Fill Material Certification- *NJ Locations Only*

Tilcon NY Inc. New Jersey Division confirms to the best of our knowledge that the aggregates produced at the locations below are virgin stone products, contain no hazards or contamination prior to shipment of materials and conform to section 901 of the *2007 New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction*, The material is identified on the job with Tilcon NJ delivery tickets. The quarries are listed in the Quality List (QPL) of the NJDOT website

http://www.state.nj.us/transportation/eng/materials/qualified/QPLDB.shtm

Pompton Lakes Quarry- Granite Gneiss, 84 Borough of Pompton Lakes, Passaic County Blocks No(s) 5105, 5105 - Lot(s) 84, 14.2.Pompton Lakes quarry contains NJDOT approved crushed stone and certified fill products.

Mt. Hope Quarry- Granite Gneiss, 625 Mt Hope Road, Wharton Borough, Morris County NJ, Block No 20001 Lot(s) No(s) 5.01, 5.02, 7; Block No 70001 Lot No 2; Block No 20101 Lot No 6. Mt Hope quarry contains NJDOT approved crushed stone, washed products and certified fill products.

Tilcon NY Inc. has had Pompton Lakes and Mt Hope quarries analyzed under the EPA Target Compound List as required by the LSRP program- *NJDEP Residential Direct Contact Soil Remediation Standards/Clean Fill Criteria*. A copy of the report is available upon request. To the best of our knowledge, the materials produced at the above quarries comply with Section 7 of the Fill Material Guidance for SRP Sites.

Riverdale Quarry- Granite Gneiss, 125 Hamburg Turnpike, Riverdale, Morris County NJ, Block No9s0 25, 26, 27, 29 Lot No 3. Riverdale Quarry NJDOT approved crushed stone, washed products and certified fill materials.

Oxford Quarry- Granite Gneiss and Limestone , Quarry and Mt Pisgah Avenue, White Township , Warren County Block 32- Lots 15,16 Block 33- Lots 22,23 Block 34 Lots 19,20 Block 25- Lots 3,5,9,90.1 NJDOT approved crushed stone ,washed products and certified materials .

S & S ENVIRONMENTAL SCIENCES, INC.

Environmental Engineering, Testing and Consultation

98 Sand Park Road, Cedar Grove, NJ 07009
Tel (973) 857-7188 Fax (973) 239-8380

Kamil Sor, Ph.D.
Orhun Sor, P.E.
Atilla Sencar, P.E.

Client:	Tilcon New York, Inc.				
Project:	Pompton Lakes, NJ (NJDEP-SRS)				
Subject:	Laboratory Analysis of Aggregate Sample (Quarry Fines)				
Job No.:	06E41	**Report Number:**	20-E-62	**Date:**	5/21/2020

We present herewith the laboratory test results of an aggregate sample (identified as Quarry Fines) delivered to our laboratory on April 28, 2020. The sample was collected by a representative of Tilcon NY, on the same day.

As requested, the aggregate sample was analyzed for the U.S. EPA Target Compound List (TCL)+30/Target Analyte List (TAL) parameters, Extractable Petroleum Hydrocarbons (EPH), pH, and Hexavalent Chromium. The analyses were performed by Integrated Analytical Laboratories, LLC (IAL) (NJDEP Lab ID No. 14751). The copies of the IAL/S&S sample chain-of-custody forms, the preliminary IAL laboratory summary report and NJDEP-SRS comparison tables are attached.

Review of the laboratory data and comparison of the sample test results to the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS) indicated that the aggregate sample **meet** the **NJDEP-RDCSRS**.

If there are any questions or if we can be of further assistance in this matter, please contact us.

Very truly yours
S & S ENVIRONMENTAL SCIENCES, INC.

Kamil Sor, Ph.D.
President

KS/ag
Attachments:
(1) Sample Chain-of-Custody Forms, Laboratory Summary Reports, and NJDEP-SRS Comparison Tables

cc: (1) Client Steve O'Reilly
email: soreilly@tilconny.com

S&S ENVIRONMENTAL SCIENCES, INC.

Environmental Engineering, Testing and Consultation

98 Sand Park Rad, Cedar Grove, NJ 07009
Tel (973) 857-7188 Fax (973) 239-8380

NJDEP Lab Certification No. 07073

SAMPLE CHAIN OF CUSTODY

CLIENT:	TILCON	DATE:	4-28-20
ADDRESS:		SSES JOB NO.	
CONTACT:		TEL. #:	
PROJECT:	Pompton Lakes, NJ	PROJECT LAB ID #:	20-048

SAMPLE NUMBER	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE	NO. OF BOTTLES	ANALYSES REQUESTED
20-048	4-28-20	10:05	Grab		NJ-NJ Cleo #11

Comments:

PRESERVATIVE	
Cooled at 4°C?	✓
HCl	
HNO_3	
H_2SO_4	
NaOH	
$Na_2S_2O_3$	
Other	

pH Meter No.:_____	Reading	T°C	Time	Analyst
pH				
pH Dup.				

Sampled By: S. O.

RELINQUISHED BY:	RECEIVED BY:	DATE AND TIME:
		4-28-20 11:10

Integrated Analytical Labs
273 Franklin Road
Randolph, NJ 07869

Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.ialonline.com

Customer Information

Company: SCS
Address:
Telephone #: 973-239-6001
Fax #:
Project Manager: P.K
EMAIL Address:
Project Name: Pompton Lakes
Project Location (State): NJ
Bottle Order #:
☑ "Report to"/"Invoice To" same as above
Sampled by: S.O.

Reporting Information

REPORT TO:
Address: Same
Attn:
FAX #
INVOICE TO:
Address:
Attn:
PO # 20-048
Quote #

Rush TAT Charge

24 hr - 100%
48 hr - 75%
72 hr - 50%
96 hr - 35%
5 day - 25%
6-9 day - 10%

Deliverables

NJ, CT, PA: ☐ Results Only (Level I); ☑ Reduced (Level II/III); ☐ Regulatory/ Full* (Level IV)
NY: ☐ ASP Category A; ☐ ASP Category B*

EDDs

☐ NJ SRP
☐ NYSDEC EQuIS
☐ lab approved custom EDD
☐ NO EDD REQ'D

Concentrations Expected:

Low Med High
Known Hazard: ☐ YES ☐ NO
Describe:

Turn-Around Time (TAT)

Standard (10 business days) Verbal
Rush/date needed (only if pre-approved)**
Hard Copy: Std 3 week — Other - call for price

Petroleum Hydrocarbons - Selection is REQUIRED

☐ NJ EPH-DRO - Category 1
☐ NJ EPH-C40 - Category 2
☐ NJ EPH-Fractionated - Cat 2
TAT for PHC, if other than 2 weeks:
☐ CT ETPH
☐ DRO-8015

Regulatory Requirement

New Jersey: ☐ GWQS; ☑ ~~ISW~~; ☐ SRS; ☐ Ecological; ☐ DW; ☐ SPLP
New York: ☐ AWQS (TOGS Table 1); ☐ GWEL (TOGS Table 5); ☐ Part 375-6.8(a) - Unrestricted; ☑ Part 375-6.8(b) - Restricted; ☑ CP-51 Table 2 or 3 (selection required)
Other States / Criteria: ☐ Pennsylvania Act 2; ☐ CT RCSA 22a-133k1-k3; ☐ TSCA PCBs
OTHER Regulatory Requirements - specify in comments

COMPLETED BY IAL:
____ Field Sampling ____ Equipment Rental

Sample Matrix

DW - Drinking Water; WW - Waste Water; GW - Groundwater; SW - Surface Water; LIQ - Liquid (specify); M - Multiphasic
OI - Oil; S - Soil; SED - Sediment; SOL - Solid (specify); SL - Sludge; W - Wipe

SAMPLE INFORMATION

ANALYTICAL PARAMETERS (please note if contingent)

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TAL/TCL +30 (X)	EPH	PH	Cr+6	Sample Specific Notes
20-048		4-22-20	10:05	Soil	5	1	✓	✓	✓	✓	

Samples previously analyzed by IAL? YES / NO

Preservative (use code)
Container Type (use code)

Preservative Code: 1 = None; 2 = HCl; 3 = HNO3; 4 = MeOH; 5 = NaOH; 6 = H2SO4; 7 = Other

Container Code: A = Amber Glass; B = Plastic; C = Vial; D = Glass; E = EnCore; T = Terracore

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time (TAT) will not start until any ambiguities have been resolved. TAT starts the following day if samples rec'd at lab ≥ 5PM. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY IAL'S TERMS & CONDITIONS (found on rear of pink copy).

Special Instructions/QC Requirements & Comments: (X) Anc SRS Parameters NY-NJ Cleanfill

FOR LAB USE ONLY
SDG #: 2897
Cooler Temp: 6 °C

Relinquished by (Signature and Company)	Date	Time	Received by (Signature and Company)	Date	Time
[signature]	4/22/20	1415	[signature]	4/28/20	1415

Carrier (check one):
☐ IAL Courier
☐ Client Courier
☐ FedEx/UPS***
***Tracking #:

IAL Rev 1/2019

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Certification IDs: TNI (TNI01284); CT (PH-0699); NJ (14751); NY (11402); PA (68-00773).

SAMPLE RECEIPT VERIFICATION

CASE NO: E 20 02897 CLIENT: 575

COOLER TEMPERATURE: 2° - 6°C: ✓ (See Chain of Custody)

COC: (COMPLETE) / INCOMPLETE

Comments

KEY

✓ = YES/NA

✗ = NO

VOA received: ☒ Encore 250 ☐ IGW - Methanol

(check one) ☐ Terra Core ☐ No Preservative

✓	Bottles Intact	
✓	no-Missing Bottles	
✓	no-Extra Bottles	
✓	Sufficient Sample Volume	
✓	no-headspace/bubbles in VOs	
✓	Labels intact/correct	
✓	pH Check (exclude VOs)[1]	
✓	Correct bottles/preservative	
✓	Sufficient Holding/Prep Time[1]	
☐	Multiphasic Sample	
☐	Sample to be Subcontracted	
✓	**Chain of Custody is Clear**	

[1] All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL AP DATE 4/28/20

CORRECTIVE ACTION REQUIRED: **YES** ☐ (SEE BELOW) **NO** ☒ N

If COC is **NOT** clear, ***STOP*** until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES ☐ Date/ Time: NO ☐

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL mf DATE 4/29/20

REV 10/2019

777 New Durham Rd., Edison, NJ 08817

208556

CLIENT & PROJECT

Name: Integrated Analytical Laboratories LLC	
Address: 273 Franklin Road	
Randolph, NJ 07869	
Telephone #: 973-361-4252	
Fax #: 973-989-5288	
Project Name: E20-02897	
Project Location (State): NJ	
Project Manager:	
Reference ID#: PO#	

REPORTING & BILLING

Contact: Thomas Malanga	
Fax #:	
EMail to: tmalanga@ialonline.com	
Report to: Thomas Malanga	
Address:	
Invoice to: Thomas Malanga	
Address:	

Turnaround Time							Report Format
Verbal/Fax							Reduced / Level III
24 hr*	48 hr*	72 hr*	1 wk*	2 wk	Other:	6 Business Days	
Hard Copy							Special Requirements
72 hr*	1 wk*	2 wk*	3 wk		Other:		
*Prior to sample arrival, Lab notification is required.							

Preservative
1 = HCL; 2 = NaOH; 3 = HNO_3
4 = H_2SO_4; 5= MeOH; 6 = Other

ANALYTICAL PARAMETERS / PRESERVATIVES

SAMPLE INFORMATION

Sample ID	Sample Depth (in Feet)	Sampling Date	Sampling Time	Matrix	# of Containers	Total Cyanide (9012B)	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
E20-02897-001		4/28/20	10:05	Soil	1	Run													

460-208556 Chain of Custody

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

COOLER TEMP: °C

Concentrations Expected: LOW MED HIGH

Known Hazard: yes no

Describe:

Note:

EMAIL CONFIRMATION REQUIRED

CUSTODY LOG

Signature/Company	Date	Time	Signature/Company
Relinquished by:	5/7/20	1136	Received by: 5/8/20 1136
Relinquished by:			Received by:
Relinquished by:			Received by:

Lab Case #

PAGE: OF

4.9°C IR#1 NoCS

05/14/2020

CoC (001-001)

REV Feb 2013

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

	Lab ID:	02897-001	
	Client ID:	20-048	
	Matrix:	Soil	
	Sampled Date	4/28/20	
PARAMETER(Units)	Conc	Q	MDL
Volatiles (Units)		*(mg/Kg)*	
Dichlorodifluoromethane	ND		0.000369
Chloromethane	ND		0.000405
Vinyl chloride	ND		0.000403
Bromomethane	ND		0.000568
Chloroethane	ND		0.000452
Trichlorofluoromethane	ND		0.000382
Acrolein	ND		0.00461
1,1-Dichloroethene	ND		0.000388
Acetone	ND		0.00242
Carbon disulfide	0.00198		0.00024
Methylene chloride	ND		0.00184
Acrylonitrile	ND		0.00408
tert-Butyl alcohol (TBA)	ND		0.000968
trans-1,2-Dichloroethene	ND		0.00038
Methyl tert-butyl ether (MTBE)	ND		0.000282
1,1-Dichloroethane	ND		0.000347
cis-1,2-Dichloroethene	ND		0.000329
2-Butanone (MEK)	ND		0.000903
Bromochloromethane	ND		0.000276
Chloroform	ND		0.000535
1,1,1-Trichloroethane	ND		0.000269
Carbon tetrachloride	ND		0.000262
1,2-Dichloroethane (EDC)	ND		0.00036
Benzene	ND		0.000206
Trichloroethene	ND		0.000277
1,2-Dichloropropane	ND		0.000222
1,4-Dioxane	ND		0.035
Bromodichloromethane	ND		0.00019
cis-1,3-Dichloropropene	ND		0.000204
4-Methyl-2-pentanone (MIBK)	ND		0.000697
Toluene	ND		0.000218
trans-1,3-Dichloropropene	ND		0.000246
1,1,2-Trichloroethane	ND		0.000292
Tetrachloroethene	ND		0.000355
2-Hexanone	ND		0.00146
Dibromochloromethane	ND		0.000261
1,2-Dibromoethane (EDB)	ND		0.000188
Chlorobenzene	ND		0.000217
Ethylbenzene	ND		0.000262
Total Xylenes	ND		0.00102
Styrene	ND		0.000316
Bromoform	ND		0.00033
Isopropylbenzene	ND		0.000323
1,1,2,2-Tetrachloroethane	ND		0.000416
n-Propylbenzene	ND		0.000264

ND = Analyzed for but Not Detected at the MDL
Continued on next page.

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

	Lab ID:	02897-001	
	Client ID:	20-048	
	Matrix:	Soil	
	Sampled Date	4/28/20	
PARAMETER(Units)	Conc	Q	MDL
Volatiles (Units)		*(mg/Kg)*	
1,3,5-Trimethylbenzene	ND		0.000429
tert-Butylbenzene	ND		0.000303
1,2,4-Trimethylbenzene	ND		0.000491
sec-Butylbenzene	ND		0.000315
1,3-Dichlorobenzene	ND		0.00028
4-Isopropyltoluene	ND		0.000365
1,4-Dichlorobenzene	ND		0.00028
n-Butylbenzene	ND		0.000392
1,2-Dichlorobenzene	ND		0.000264
1,2-Dibromo-3-chloropropane	ND		0.000524
1,2,4-Trichlorobenzene	ND		0.000372
1,2,3-Trichlorobenzene	ND		0.000375
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00042
Methyl acetate	ND		0.000292
Cyclohexane	ND		0.000432
Methylcyclohexane	ND		0.000276
1,3-Dichloropropene (cis- and trans-)	ND		0.000246
TOTAL TIC's:	ND		
Semivolatiles (Units)		*(mg/Kg)*	
N-Nitrosodimethylamine	ND		0.028
Benzaldehyde	ND		0.026
Phenol	ND		0.032
Aniline	ND		0.021
Bis(2-chloroethyl) ether	ND		0.026
2-Chlorophenol	ND		0.026
Benzyl alcohol	ND		0.031
2-Methylphenol	ND		0.019
2,2'-Oxybis(1-Chloropropane)	ND		0.031
4-Methylphenol **	ND		0.023
N-Nitrosodi-n-propylamine	ND		0.023
Acetophenone	ND		0.027
Hexachloroethane	ND		0.026
Nitrobenzene	ND		0.021
Isophorone	ND		0.024
2-Nitrophenol	ND		0.030
2,4-Dimethylphenol	ND		0.019
Bis(2-chloroethoxy) methane	ND		0.026
Benzoic acid	ND		0.027
2,4-Dichlorophenol	ND		0.026
Naphthalene	ND		0.026
4-Chloroaniline	ND		0.023
Hexachlorobutadiene	ND		0.021
Caprolactam	ND		0.025

ND = Analyzed for but Not Detected at the MDL

Continued on next page.

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

	Lab ID:	02897-001	
	Client ID:	20-048	
	Matrix:	Soil	
	Sampled Date	4/28/20	
PARAMETER(Units)	Conc	Q	MDL
Semivolatiles (Units)		*(mg/Kg)*	
4-Chloro-3-methylphenol	ND		0.022
2-Methylnaphthalene	ND		0.021
Hexachlorocyclopentadiene	ND		0.028
2,4,6-Trichlorophenol	ND		0.026
2,4,5-Trichlorophenol	ND		0.028
1,1'-Biphenyl	ND		0.027
2-Chloronaphthalene	ND		0.025
2-Nitroaniline	ND		0.025
Dimethyl phthalate	ND		0.024
2,6-Dinitrotoluene	ND		0.031
Acenaphthylene	ND		0.026
3-Nitroaniline	ND		0.024
Acenaphthene	ND		0.027
2,4-Dinitrophenol	ND		0.031
4-Nitrophenol	ND		0.030
2,4-Dinitrotoluene	ND		0.029
Dibenzofuran	ND		0.024
Diethyl phthalate	ND		0.019
Fluorene	ND		0.028
4-Chlorophenyl phenyl ether	ND		0.027
4-Nitroaniline	ND		0.020
1,2,4,5-Tetrachlorobenzene	ND		0.023
2,3,4,6-Tetrachlorophenol	ND		0.028
4,6-Dinitro-2-methylphenol	ND		0.031
N-Nitrosodiphenylamine	ND		0.031
1,2-Diphenylhydrazine	ND		0.032
4-Bromophenyl phenyl ether	ND		0.023
Hexachlorobenzene	ND		0.023
Atrazine	ND		0.025
Pentachlorophenol	ND		0.022
Phenanthrene	ND		0.031
Anthracene	ND		0.032
Carbazole	ND		0.029
Di-n-butyl phthalate	ND		0.027
Fluoranthene	ND		0.031
Benzidine	ND		0.025
Pyrene	ND		0.029
Butyl benzyl phthalate	ND		0.030
3,3'-Dichlorobenzidine	ND		0.029
Benzo[a]anthracene	ND		0.019
Chrysene	ND		0.030
Bis(2-ethylhexyl) phthalate	ND		0.029
Di-n-octyl phthalate	ND		0.030
Benzo[b]fluoranthene	ND		0.031
Benzo[k]fluoranthene	ND		0.027

ND = Analyzed for but Not Detected at the MDL
Continued on next page.

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

Lab ID:	**02897-001**		
Client ID:	**20-048**		
Matrix:	**Soil**		
Sampled Date	**4/28/20**		
PARAMETER(Units)	Conc	Q	MDL
Semivolatiles (Units)	***(mg/Kg)***		
Benzo[a]pyrene	ND		0.028
Indeno[1,2,3-cd]pyrene	ND		0.031
Dibenz[a,h]anthracene	ND		0.030
Benzo[g,h,i]perylene	ND		0.031
Dinitrotoluene (2,4- and 2,6-)	ND		0.031
TOTAL TIC's:	ND		
PCB's (Units)	***(mg/Kg)***		
Aroclor-1016	ND		0.00132
Aroclor-1221	ND		0.00132
Aroclor-1232	ND		0.00132
Aroclor-1242	ND		0.00132
Aroclor-1248	ND		0.00132
Aroclor-1254	ND		0.00132
Aroclor-1260	ND		0.00132
Aroclor-1262	ND		0.00132
Aroclor-1268	ND		0.00132
PCBs	ND		0.00132
Pesticides (Units)	***(mg/Kg)***		
alpha-BHC	ND		0.000329
beta-BHC	ND		0.000329
gamma-BHC (Lindane)	ND		0.000329
delta-BHC	ND		0.000329
Heptachlor	ND		0.000329
Aldrin	ND		0.000329
Heptachlor epoxide	ND		0.000329
Endosulfan I	ND		0.000329
4,4'-DDE	ND		0.000329
Dieldrin	ND		0.000329
Endrin	ND		0.000329
Endosulfan II	ND		0.000329
4,4'-DDD	ND		0.000329
Endrin aldehyde	ND		0.000329
Endosulfan sulfate	ND		0.000329
4,4'-DDT	ND		0.000329
Endrin ketone	ND		0.000329
Methoxychlor	ND		0.000329
alpha-Chlordane	ND		0.000329
gamma-Chlordane	ND		0.000329
Toxaphene	ND		0.00395
Endosulfan (I and II)	ND		0.000329
Chlordane (alpha and gamma)	ND		0.000329

ND = Analyzed for but Not Detected at the MDL

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

Lab ID:	**02897-001**		
Client ID:	**20-048**		
Matrix:	**Soil**		
Sampled Date	**4/28/20**		
PARAMETER(Units)	Conc	Q	MDL
Herbicides (Units)	***(mg/Kg)***		
Dalapon	ND		0.00658
Dicamba	ND		0.00658
2,4-D	ND		0.00658
2,4,5-TP (Silvex)	ND		0.00658
2,4,5-T	ND		0.00658
2,4-DB	ND		0.00658
Dinoseb	ND		0.00658
NJ-EPH-C40 (Units)	***(mg/Kg)***		
C9-C40	21.1	J	19.9
Alcohols (Units)	***(mg/Kg)***		
Methanol	ND		1.97
Metals (Units)	***(mg/Kg)***		
Aluminum	4640		2.17
Antimony	ND		0.217
Arsenic	0.687		0.163
Barium	41.1		0.272
Beryllium	0.316	J	0.163
Cadmium	ND		0.326
Calcium	3920		16.3
Chromium	16.3		0.272
Cobalt	8.86		0.163
Copper	50.4		0.380
Iron	13500		16.3
Lead	3.21		0.272
Magnesium	4030		16.3
Manganese	94.9		0.380
Mercury	ND		0.013
Nickel	23.0		0.380
Potassium	3050		21.7
Selenium	3.37	J	1.63
Silver	ND		0.326
Sodium	116		21.7
Thallium	ND		0.272
Vanadium	23.6		0.272
Zinc	19.4		1.09

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

SUMMARY REPORT
Client: S & S Environmental
Project: POMPTON LAKES
Lab Case No.: E20-02897

	Lab ID:	**02897-001**	
	Client ID:	**20-048**	
	Matrix:	**Soil**	
	Sampled Date	**4/28/20**	
PARAMETER(Units)	Conc	Q	MDL
General Analytical (Units)			
Hexavalent Chromium(mg/Kg)	ND		0.380
pH/Corrosivity(SU)	8.38		NA
Trivalent (III) Chromium(mg/Kg)	16.3		0.380
Subcontracted Data (Units)	***(mg/Kg)***		
	*		*

ND = Analyzed for but Not Detected at the MDL

*Subcontracted Results for Total Cyanide (9012B) by Test America - Edison are available in the Subcontracted Report section

TestAmerica Laboratories, Inc.

Eurofins TestAmerica, Edison

SUMMARY OF ANALYTICAL RESULTS: 460-208556-1

Job Description: E20-02897

For:

Integrated Analytical Laboratories LLC

PO BOX 8026

Parsippany, New Jersey 07054

Client ID	NJ_SRS7_26D_Tbl1A	NJ_SRS7_26D_Tbl1B	NJDEP	E20-02897-001		
Lab Sample ID	Residential	Non-Residential	IGW Screening	460-208556-1		
Sampling Date	Sept_2017	Sept_2017	Nov_2013	04/28/2020 10:05:00		
Matrix				Soil		
				Result	Q	MDL
SOIL BY 9012B						
Cyanide, Total (mg/kg)	47	680	20	0.12	U	0.12

U : Indicates the analyte was analyzed for but not detected.

Lab Contact:
Jill Miller
Senior Project Manager
(484)685-0871

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

Sample #:		NJDEP SOIL REMEDIATION			20-048			
Field ID:		STANDARDS						
Lab ID:		Residential	Non-Res	Default IGW	02897-001			
Date Sampled:		SRS	SRS	Screening	04/28/2020			
Depth(ft):				Level				
	CAS	(mg/Kg)	(mg/Kg)	(mg/Kg)				
Volatiles (mg/Kg)					Conc	Q	RL	MDL
Dichlorodifluoromethane	75-71-8	490	230000	39	ND		0.00095	0.000369
Chloromethane	74-87-3	4	12	NS	ND		0.00095	0.000405
Vinyl chloride	75-01-4	0.7	2	0.005	ND		0.00095	0.000403
Bromomethane	74-83-9	25	59	0.04	ND		0.00095	0.000568
Chloroethane	75-00-3	220	1100	NS	ND		0.00095	0.000452
Trichlorofluoromethane	75-69-4	23000	340000	34	ND		0.00095	0.000382
Acrolein	107-02-8	0.5	1	0.5	ND		0.019	0.00461
1,1-Dichloroethene	75-35-4	11	150	0.008	ND		0.00095	0.000388
Acetone	67-64-1	70000	NS	19	ND		0.0095	0.00242
Carbon disulfide	75-15-0	7800	110000	6	0.00198		0.00095	0.00024
Methylene chloride	75-09-2	46	230	0.01	ND		0.0019	0.00184
Acrylonitrile	107-13-1	0.9	3	0.5	ND		0.019	0.00408
tert-Butyl alcohol (TBA)	75-65-0	1400	11000	0.3	ND		0.0038	0.000968
trans-1,2-Dichloroethene	156-60-5	300	720	0.6	ND		0.00095	0.00038
Methyl tert-butyl ether (MTBE)	1634-04-4	110	320	0.2	ND		0.00095	0.000282
1,1-Dichloroethane	75-34-3	8	24	0.2	ND		0.00095	0.000347
cis-1,2-Dichloroethene	156-59-2	230	560	0.3	ND		0.00095	0.000329
2-Butanone (MEK)	78-93-3	3100	44000	0.9	ND		0.0038	0.000903
Bromochloromethane	74-97-5	NS	NS	NS	ND		0.00095	0.000276
Chloroform	67-66-3	0.6	2	0.4	ND		0.00095	0.000535
1,1,1-Trichloroethane	71-55-6	160000	NS	0.3	ND		0.00095	0.000269
Carbon tetrachloride	56-23-5	2	4	0.005	ND		0.00095	0.000262
1,2-Dichloroethane (EDC)	107-06-2	0.9	3	0.005	ND		0.00095	0.00036
Benzene	71-43-2	2	5	0.005	ND		0.00095	0.000206
Trichloroethene	79-01-6	3	10	0.01	ND		0.00095	0.000277
1,2-Dichloropropane	78-87-5	2	5	0.005	ND		0.00095	0.000222
1,4-Dioxane	123-91-1	NS	NS	NS	ND		0.190	0.035
Bromodichloromethane	75-27-4	1	3	0.005	ND		0.00095	0.00019
cis-1,3-Dichloropropene	10061-01-5	NS	NS	NS	ND		0.00095	0.000204
4-Methyl-2-pentanone (MIBK)	108-10-1	NS	NS	NS	ND		0.0019	0.000697
Toluene	108-88-3	6300	91000	7	ND		0.00095	0.000218
trans-1,3-Dichloropropene	10061-02-6	NS	NS	NS	ND		0.00095	0.000246
1,1,2-Trichloroethane	79-00-5	2	6	0.02	ND		0.00095	0.000292
Tetrachloroethene	127-18-4	43	1500	0.005	ND		0.00095	0.000355
2-Hexanone	591-78-6	NS	NS	NS	ND		0.0019	0.00146
Dibromochloromethane	124-48-1	3	8	0.005	ND		0.00095	0.000261
1,2-Dibromoethane (EDB)	106-93-4	0.008	0.04	0.005	ND		0.00095	0.000188
Chlorobenzene	108-90-7	510	7400	0.6	ND		0.00095	0.000217

Standards are based upon published regulatory information.
Users are encouraged to consult appropriate regulatory sources for current values and updates.
IAL assumes no responsibility for the accuracy of these values.

EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

Ethylbenzene	100-41-4	7800	110000	13	ND		0.00095	0.000262
Total Xylenes	1330-20-7	12000	170000	19	ND		0.0019	0.00102
Styrene	100-42-5	90	260	3	ND		0.00095	0.000316
Bromoform	75-25-2	81	280	0.03	ND		0.00095	0.00033
Isopropylbenzene	98-82-8	NS	NS	NS	ND		0.00095	0.000323
1,1,2,2-Tetrachloroethane	79-34-5	1	3	0.007	ND		0.00095	0.000416
n-Propylbenzene	103-65-1	NS	NS	NS	ND		0.00095	0.000264
1,3,5-Trimethylbenzene	108-67-8	NS	NS	NS	ND		0.00095	0.000429
tert-Butylbenzene	98-06-6	NS	NS	NS	ND		0.00095	0.000303
1,2,4-Trimethylbenzene	95-63-6	NS	NS	NS	ND		0.00095	0.000491
sec-Butylbenzene	135-98-8	NS	NS	NS	ND		0.00095	0.000315
1,3-Dichlorobenzene	541-73-1	5300	59000	19	ND		0.00095	0.00028
4-Isopropyltoluene	99-87-6	NS	NS	NS	ND		0.00095	0.000365
1,4-Dichlorobenzene	106-46-7	5	13	2	ND		0.00095	0.00028
n-Butylbenzene	104-51-8	NS	NS	NS	ND		0.00095	0.000392
1,2-Dichlorobenzene	95-50-1	5300	59000	17	ND		0.00095	0.000264
1,2-Dibromo-3-chloropropane	96-12-8	0.08	0.2	0.005	ND		0.00095	0.000524
1,2,4-Trichlorobenzene	120-82-1	73	820	0.7	ND		0.00095	0.000372
1,2,3-Trichlorobenzene	87-61-6	NS	NS	NS	ND		0.00095	0.000375
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	NS	NS	NS	ND		0.00095	0.00042
Methyl acetate	79-20-9	78000	NS	22	ND		0.0019	0.000292
Cyclohexane	110-82-7	NS	NS	NS	ND		0.00095	0.000432
Methylcyclohexane	108-87-2	NS	NS	NS	ND		0.00095	0.000276
1,3-Dichloropropene (cis- and trans-)	542-75-6	2	7	0.005	ND		0.00095	0.000246
TOTAL TIC's:		NS	NS	NS	ND			NA

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

Semivolatiles (mg/Kg)					Conc	Q	RL	MDL
N-Nitrosodimethylamine	62-75-9	0.7	0.7	0.7	ND		0.032	0.028
Benzaldehyde	100-52-7	6100	68000	NS	ND		0.032	0.026
Phenol	108-95-2	18000	210000	8	ND		0.032	0.032
Aniline	62-53-3	NS	NS	NS	ND		0.032	0.021
Bis(2-chloroethyl) ether	111-44-4	0.4	2	0.2	ND		0.032	0.026
2-Chlorophenol	95-57-8	310	2200	0.8	ND		0.032	0.026
Benzyl alcohol	100-51-6	NS	NS	NS	ND		0.032	0.031
2-Methylphenol	95-48-7	310	3400	NS	ND		0.032	0.019
2,2'-Oxybis(1-Chloropropane)	108-60-1	23	67	5	ND		0.032	0.031
4-Methylphenol **	106-44-5	31	340	NS	ND		0.032	0.023
N-Nitrosodi-n-propylamine	621-64-7	0.2	0.3	0.2	ND		0.032	0.023
Acetophenone	98-86-2	2	5	3	ND		0.032	0.027
Hexachloroethane	67-72-1	12	48	0.2	ND		0.032	0.026
Nitrobenzene	98-95-3	5	14	0.2	ND		0.032	0.021
Isophorone	78-59-1	510	2000	0.2	ND		0.032	0.024
2-Nitrophenol	88-75-5	NS	NS	NS	ND		0.032	0.030
2,4-Dimethylphenol	105-67-9	1200	14000	1	ND		0.032	0.019
Bis(2-chloroethoxy) methane	111-91-1	NS	NS	NS	ND		0.032	0.026
Benzoic acid	65-85-0	NS	NS	NS	ND		0.322	0.027
2,4-Dichlorophenol	120-83-2	180	2100	0.2	ND		0.032	0.026
Naphthalene	91-20-3	6	17	25	ND		0.032	0.026
4-Chloroaniline	106-47-8	NS	NS	NS	ND		0.032	0.023
Hexachlorobutadiene	87-68-3	6	25	0.9	ND		0.032	0.021
Caprolactam	105-60-2	31000	340000	12	ND		0.032	0.025
4-Chloro-3-methylphenol	59-50-7	NS	NS	NS	ND		0.032	0.022
2-Methylnaphthalene	91-57-6	230	2400	8	ND		0.032	0.021
Hexachlorocyclopentadiene	77-47-4	45	110	320	ND		0.032	0.028
2,4,6-Trichlorophenol	88-06-2	19	74	0.2	ND		0.032	0.026
2,4,5-Trichlorophenol	95-95-4	6100	68000	68	ND		0.032	0.028
1,1'-Biphenyl	92-52-4	61	240	140	ND		0.032	0.027
2-Chloronaphthalene	91-58-7	NS	NS	NS	ND		0.032	0.025
2-Nitroaniline	88-74-4	39	23000	NS	ND		0.032	0.025
Dimethyl phthalate	131-11-3	NS	NS	NS	ND		0.032	0.024
2,6-Dinitrotoluene	606-20-2	0.7	3	NS	ND		0.032	0.031
Acenaphthylene	208-96-8	NS	300000	NS	ND		0.032	0.026
3-Nitroaniline	99-09-2	NS	NS	NS	ND		0.032	0.024
Acenaphthene	83-32-9	3400	37000	110	ND		0.032	0.027
2,4-Dinitrophenol	51-28-5	120	1400	0.3	ND		0.032	0.031
4-Nitrophenol	100-02-7	NS	NS	NS	ND		0.032	0.030
2,4-Dinitrotoluene	121-14-2	0.7	3	NS	ND		0.032	0.029
Dibenzofuran	132-64-9	NS	NS	NS	ND		0.032	0.024
Diethyl phthalate	84-66-2	49000	550000	88	ND		0.032	0.019
Fluorene	86-73-7	2300	24000	170	ND		0.032	0.028
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	NS	ND		0.032	0.027
4-Nitroaniline	100-01-6	NS	NS	NS	ND		0.032	0.020

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1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	NS	ND		0.032	0.023
2,3,4,6-Tetrachlorophenol	58-90-2	NS	NS	NS	ND		0.032	0.028
4,6-Dinitro-2-methylphenol	534-52-1	6	68	0.3	ND		0.032	0.031
N-Nitrosodiphenylamine	86-30-6	99	390	0.4	ND		0.032	0.031
1,2-Diphenylhydrazine	122-66-7	0.7	2	0.7	ND		0.032	0.032
4-Bromophenyl phenyl ether	101-55-3	NS	NS	NS	ND		0.032	0.023
Hexachlorobenzene	118-74-1	0.3	1	0.2	ND		0.032	0.023
Atrazine	1912-24-9	210	2400	0.2	ND		0.032	0.025
Pentachlorophenol	87-86-5	0.9	3	0.3	ND		0.032	0.022
Phenanthrene	85-01-8	NS	300000	NS	ND		0.032	0.031
Anthracene	120-12-7	17000	30000	2400	ND		0.032	0.032
Carbazole	86-74-8	24	96	NS	ND		0.032	0.029
Di-n-butyl phthalate	84-74-2	6100	68000	760	ND		0.032	0.027
Fluoranthene	206-44-0	2300	24000	1300	ND		0.032	0.031
Benzidine	92-87-5	0.7	0.7	0.7	ND		0.032	0.025
Pyrene	129-00-0	1700	18000	840	ND		0.032	0.029
Butyl benzyl phthalate	85-68-7	1200	14000	230	ND		0.032	0.030
3,3'-Dichlorobenzidine	91-94-1	1	4	0.2	ND		0.032	0.029
Benzo[a]anthracene	56-55-3	5	17	0.8	ND		0.032	0.019
Chrysene	218-01-9	450	1700	80	ND		0.032	0.030
Bis(2-ethylhexyl) phthalate	117-81-7	35	140	1200	ND		0.032	0.029
Di-n-octyl phthalate	117-84-0	2400	27000	3300	ND		0.032	0.030
Benzo[b]fluoranthene	205-99-2	5	17	2	ND		0.032	0.031
Benzo[k]fluoranthene	207-08-9	45	170	25	ND		0.032	0.027
Benzo[a]pyrene	50-32-8	0.5	2	0.2	ND		0.032	0.028
Indeno[1,2,3-cd]pyrene	193-39-5	5	17	7	ND		0.032	0.031
Dibenz[a,h]anthracene	53-70-3	0.5	2	0.8	ND		0.032	0.030
Benzo[g,h,i]perylene	191-24-2	380000	30000	NS	ND		0.032	0.031
Dinitrotoluene (2,4- and 2,6-)	25321-14-6	0.7	3	0.2	ND		0.032	0.031
TOTAL TIC's:		NS	NS	NS	ND			NA

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

PCB's (mg/Kg)					Conc	Q	RL	MDL	
Aroclor-1016	12674-11-2	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1221	11104-28-2	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1232	11141-16-5	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1242	53469-21-9	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1248	12672-29-6	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1254	11097-69-1	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1260	11096-82-5	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1262	37324-23-5	NS	NS	NS	ND		0.00329	0.00132	
Aroclor-1268	11100-14-4	NS	NS	NS	ND		0.00329	0.00132	
PCBs	1336-36-3	0.2	1	0.2	ND		0.00329	0.00132	

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

Pesticides (mg/Kg)					Conc	Q	RL	MDL
alpha-BHC	319-84-6	0.1	0.5	0.002	ND		0.000658	0.000329
beta-BHC	319-85-7	0.4	2	0.002	ND		0.000658	0.000329
gamma-BHC (Lindane)	58-89-9	0.4	2	0.002	ND		0.000658	0.000329
delta-BHC	319-86-8	NS	NS	NS	ND		0.000658	0.000329
Heptachlor	76-44-8	0.1	0.7	0.5	ND		0.000658	0.000329
Aldrin	309-00-2	0.04	0.2	0.2	ND		0.000658	0.000329
Heptachlor epoxide	1024-57-3	0.07	0.3	0.01	ND		0.000658	0.000329
Endosulfan I	959-98-8	NS	NS	NS	ND		0.000658	0.000329
4,4'-DDE	72-55-9	2	9	18	ND		0.000658	0.000329
Dieldrin	60-57-1	0.04	0.2	0.003	ND		0.000658	0.000329
Endrin	72-20-8	23	340	1	ND		0.000658	0.000329
Endosulfan II	33213-65-9	NS	NS	NS	ND		0.000658	0.000329
4,4'-DDD	72-54-8	3	13	4	ND		0.000658	0.000329
Endrin aldehyde	7421-93-4	NS	NS	NS	ND		0.000658	0.000329
Endosulfan sulfate	1031-07-8	470	6800	2	ND		0.000658	0.000329
4,4'-DDT	50-29-3	2	8	11	ND		0.000658	0.000329
Endrin ketone	53494-70-5	NS	NS	NS	ND		0.000658	0.000329
Methoxychlor	72-43-5	390	5700	160	ND		0.000658	0.000329
alpha-Chlordane	5103-71-9	NS	NS	NS	ND		0.000658	0.000329
gamma-Chlordane	5103-74-2	NS	NS	NS	ND		0.000658	0.000329
Toxaphene	8001-35-2	0.6	3	0.3	ND		0.00823	0.00395
Endosulfan (I and II)	115-29-7	470	6800	4	ND		0.000658	0.000329
Chlordane (alpha and gamma)	57-74-9	0.2	1	0.05	ND		0.000658	0.000329

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

NJ-EPH-C40 (mg/Kg)					Conc	Q	RL	MDL	
C9-C40	IALC9C40	NS	NS	NS	21.1	J	49.9	19.9	

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

Metals (mg/Kg)					Conc	Q	RL	MDL
Aluminum	7429-90-5	78000	NS	6000	4640		5.43	2.17
Antimony	7440-36-0	31	450	6	ND		0.543	0.217
Arsenic	7440-38-2	19	19	19	0.687		0.543	0.163
Barium	7440-39-3	16000	59000	2100	41.1		0.543	0.272
Beryllium	7440-41-7	16	140	0.7	0.316	J	0.543	0.163
Cadmium	7440-43-9	78	78	2	ND		0.543	0.326
Calcium	7440-70-2	NS	NS	NS	3920		54.3	16.3
Chromium	7440-47-3	NS	NS	NS	16.3		0.543	0.272
Cobalt	7440-48-4	1600	590	90	8.86		0.543	0.163
Copper	7440-50-8	3100	45000	11000	50.4		0.543	0.380
Iron	7439-89-6	NS	NS	NS	13500		54.3	16.3
Lead	7439-92-1	400	800	90	3.21		0.543	0.272
Magnesium	7439-95-4	NS	NS	NS	4030		54.3	16.3
Manganese	7439-96-5	11000	5900	65	**94.9**		0.543	0.380
Mercury	7439-97-6	23	65	0.1	ND		0.031	0.013
Nickel	7440-02-0	1600	23000	48	23.0		0.543	0.380
Potassium	7440-09-7'	NS	NS	NS	3050		54.3	21.7
Selenium	7782-49-2	390	5700	11	3.37	J	3.80	1.63
Silver	7440-22-4	390	5700	1	ND		0.543	0.326
Sodium	7440-23-5	NS	NS	NS	116		54.3	21.7
Thallium	7440-28-0	withdrawn	withdrawn	3	ND		0.543	0.272
Vanadium	7440-62-2	78	1100	NS	23.6		0.543	0.272
Zinc	7440-66-6	23000	110000	930	19.4		5.43	1.09

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EDD created on 5/13/20

S S Environmental
Project Name: POMPTON LAKES
IAL SDG No:E20-02897

General Analytical					Conc	Q	RL	MDL	
Hexavalent Chromium-mg/Kg	18540-29-9	240	20	NS	ND		1.00	0.380	
pH/Corrosivity-SU	SRP 6	NS	NS	NS	8.38		NA	NA	
Trivalent (III) Chromium-mg/Kg	16065-83-1	120000	NS	NS	16.3		1.00	0.380	

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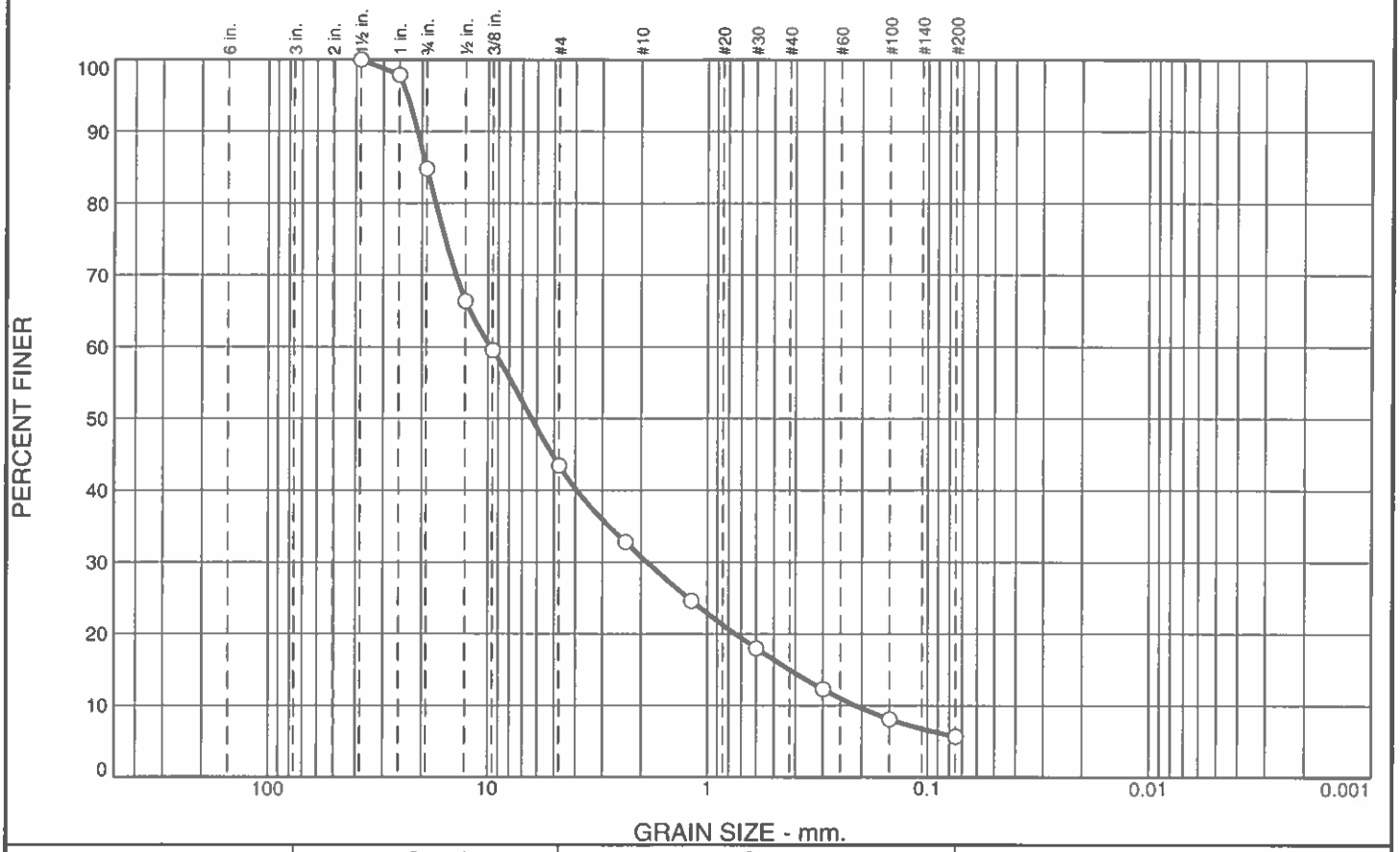
EDD created on 5/13/20

Subcontracted Data					Conc	Q	RL	MDL	
		NS	NS	NS	?		?	NA	
NJDEP Soil Remediation Standards: Remediation Standards N.J.A.C. 7:26D, May 2012; Amended Sept 2017									
BOLD Conc	Indicates a concentration that exceeds applicable criteria.								
BOLD RL	Indicates RL that exceeds applicable criteria.								
BOLD MDL	Indicates MDL that exceeds applicable criteria.								
NS = No Standard Available									
~ = Sample not analyzed for									
ND = Analyzed for but Not Detected at the MDL									
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.									
? = Results not available									
Subcontracted Results for Total Cyanide (9012B) by Test America -Edison are available in the Subcontracted Report section									

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.2	41.3	12.7	15.8	9.3	5.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0		
1"	97.9		
3/4"	84.8		
1/2"	66.4		
3/8"	59.5		
#4	43.5		
#8	32.8		
#16	24.6		
#30	18.0		
#50	12.3		
#100	8.1		
#200	5.7		

* (no specification provided)

Material Description

well-graded gravel with silt and sand

Atterberg Limits

PL= LL= NV PI=

Coefficients

D_{90}= 21.0362 D_{85}= 19.1237 D_{60}= 9.7392
D_{50}= 6.3376 D_{30}= 1.8790 D_{15}= 0.4245
D_{10}= 0.2134 C_u= 45.63 C_c= 1.70

Classification

USCS= AASHTO=

Remarks

NMC = 2.4%

Source of Sample: Tilcon
Sample Number: 13665

Date: 12/18/2020

NV5

Rahway, New Jersey

Client: Entact
Project: Site 107

Project No: 113520-0002300.01 **Figure** 1

Tested By: M.E **Checked By:** BA

COMPACTION TEST REPORT

Project No.: 113520-0002300.01 **Date:** 12/18/2020
Project: Site 107
Client: Entact
Source of Sample: Tilcon
Sample Number: 13665
Remarks:

MATERIAL DESCRIPTION

Description: well-graded gravel with silt and sand

Classifications - **USCS:** **AASHTO:**
Nat. Moist. = **Sp.G. =**
Liquid Limit = NV **Plasticity Index =**
% < No.200 = 5.7 %

TEST RESULTS
Maximum dry density = 145.1 pcf
Optimum moisture = 6.2 %

Test specification:
ASTM D 1557-07 Method C Modified

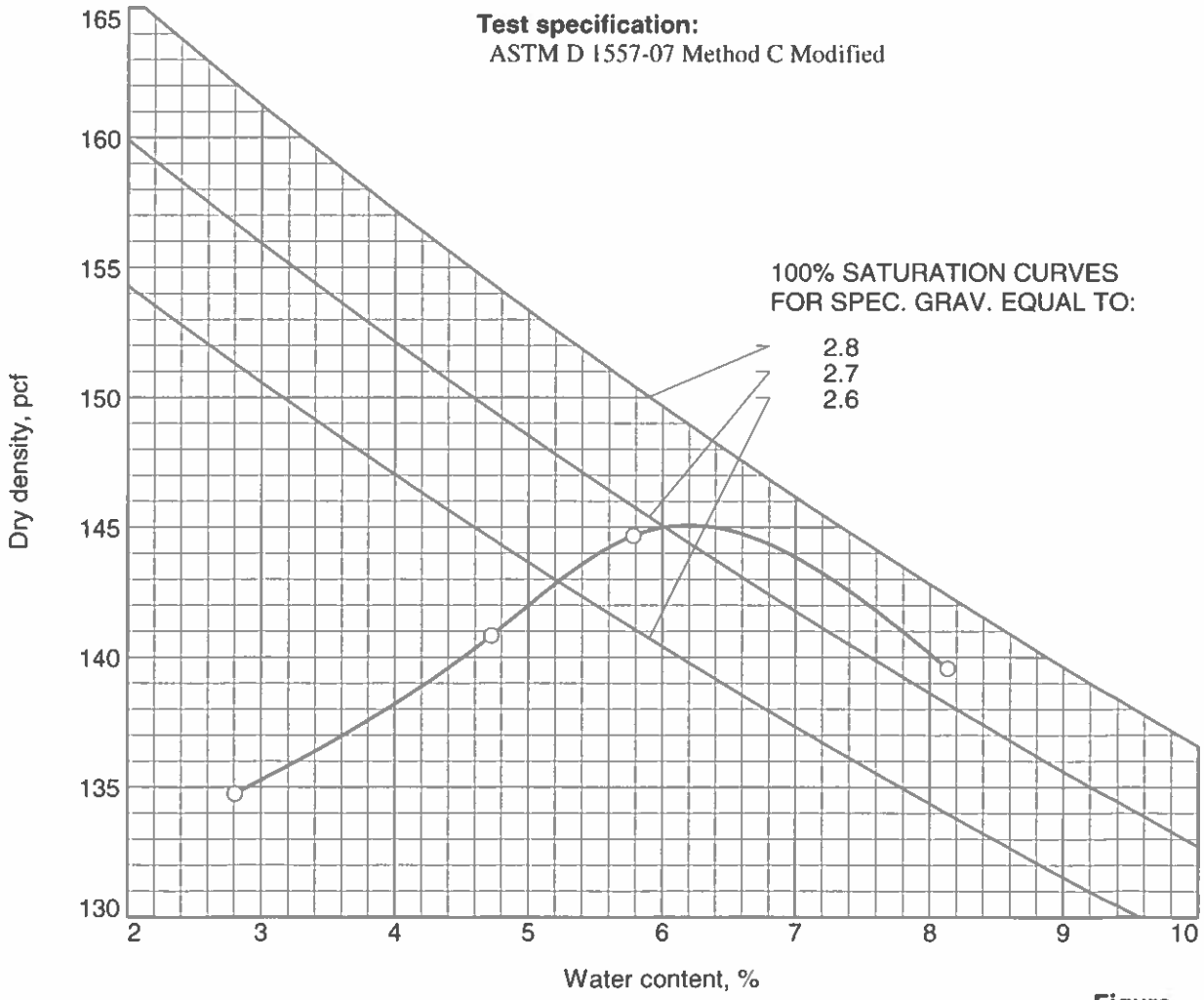


Figure 1

NV5

Tested By: M.E **Checked By:** BA