

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

LAB CHRONICLE

OrderID:	Q3642	OrderDate:	11/14/2025 10:00:00 AM
Client:	Vartan Manufacturing Corp.	Project:	Semi Annual 2025
Contact:	Herman Demirciyan	Location:	D51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3642-02	EFF-DAY-1-1-4CN	WATER			11/25/25 14:00			11/25/25
			Cyanide	SM4500-CN C,E		11/26/25	11/26/25 14:04	



SAMPLE DATA

Report of Analysis

Client: Vartan Manufacturing Corp.
Project: Semi Annual 2025
Client Sample ID: EFF-DAY-1-1-4CN
Lab Sample ID: Q3642-02

Date Collected: 11/25/25 14:00
Date Received: 11/25/25
SDG No.: Q3642
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.0021	J	1	0.0012	0.0050	mg/L	11/26/25 10:15	11/26/25 14:04	SM 4500-CN C-21 plus E-21

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



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Vartan Manufacturing Corp.

SDG No.: Q3642

Project: Semi Annual 2025

RunNo.: LB138054

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.098	0.099	99	85-115	11/26/2025
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	11/26/2025
Sample ID: Cyanide	CCV2	mg/L	0.24	0.25	96	90-110	11/26/2025

Initial and Continuing Calibration Blank Summary

Client: Vartan Manufacturing Corp.

SDG No.: Q3642

Project: Semi Annual 2025

RunNo.: LB138054

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	0.0015	0.0025	J	0.0012	0.005	11/26/2025
Sample ID: CCB1 Cyanide	mg/L	0.0014	0.0025	J	0.0012	0.005	11/26/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.0012	0.005	11/26/2025

Preparation Blank Summary

Client: Vartan Manufacturing Corp.

SDG No.: Q3642

Project: Semi Annual 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB170751BL mg/L	0.0012	0.0025	J	0.0012	0.005	11/26/2025

Matrix Spike Summary

Client:	Vartan Manufacturing Corp.	SDG No.:	Q3642
Project:	Semi Annual 2025	Sample ID:	Q3642-02
Client ID:	EFF-DAY-1-1-4CNMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.038		0.0021	J	0.04	1	90		11/26/2025

Matrix Spike Summary

Client:	Vartan Manufacturing Corp.	SDG No.:	Q3642
Project:	Semi Annual 2025	Sample ID:	Q3642-02
Client ID:	EFF-DAY-1-1-4CNMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/L	75-125	0.039		0.0021	J	0.04	1	92		11/26/2025

Duplicate Sample Summary

Client:	Vartan Manufacturing Corp.	SDG No.:	Q3642
Project:	Semi Annual 2025	Sample ID:	Q3642-02
Client ID:	EFF-DAY-1-1-4CNDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.0021	J	0.0021	J	1	0		11/26/2025

Duplicate Sample Summary

Client: Vartan Manufacturing Corp.	SDG No.: Q3642
Project: Semi Annual 2025	Sample ID: Q3642-02
Client ID: EFF-DAY-1-1-4CNMSD	Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/L	+/-20	0.038		0.039		1	3		11/26/2025

Laboratory Control Sample Summary

Client: Vartan Manufacturing Corp.

SDG No.: Q3642

Project: Semi Annual 2025

Run No.: LB138054

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB170751BS							
Cyanide	mg/L	0.1	0.098		98	1	85-115	11/26/2025



RAW DATA

LB138054

Test results

Aquakem 7.2AQ1

Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

11/26/2025 14:22

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	97.524	0.0	0.084	
ICB1	1.460	0.0	0.002	
CCV1	239.362	0.0	0.206	
CCB1	1.392	0.0	0.002	
RL CHECK	5.429	0.0	0.005	108% (50-150)
PB170751BL	1.248	0.0	0.002	
PB170751BS	98.259	0.0	0.085	95% (90-110)
MIDPB170751	239.306	0.0	0.206	
Q3642-02	2.102	0.0	0.002	
Q3642-02DUP	2.109	0.0	0.002	
Q3642-02MS	37.947	0.0	0.033	
Q3642-02MSD	39.488	0.0	0.034	
CCV2	241.959	0.0	0.208	
CCB2	0.738	0.0	0.001	

N 14
Mean 72.023
SD 97.1488
CV% 134.89

11/26/2025
RM

Aquakem v. 7.2AQ1

Results from time period:

Wed Nov 26 13:56:25 2025

Wed Nov 26 14:14:20 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	1.1474	µg/l	11/26/2025 10:20:10	
5.0PPBCN	A	Total CN	P	5.8632	µg/l	11/26/2025 10:20:11	
10PPBCN	A	Total CN	P	10.1739	µg/l	11/26/2025 10:20:12	
50PPBCN	A	Total CN	P	47.7328	µg/l	11/26/2025 10:20:13	
100PPBCN	A	Total CN	P	100.3321	µg/l	11/26/2025 10:20:14	
250PPBCN	A	Total CN	P	249.2048	µg/l	11/26/2025 10:20:15	
500PPBCN	A	Total CN	P	500.5458	µg/l	11/26/2025 10:20:16	
ICV1	S	Total CN	P	97.5241	µg/l	11/26/2025 13:56:25	
ICB1	S	Total CN	P	1.4605	µg/l	11/26/2025 13:56:27	
CCV1	S	Total CN	P	239.3618	µg/l	11/26/2025 13:56:30	
CCB1	S	Total CN	P	1.3921	µg/l	11/26/2025 13:56:31	
RL CHECK	S	Total CN	P	5.4292	µg/l	11/26/2025 13:56:33	
PB170751BL	S	Total CN	P	1.2479	µg/l	11/26/2025 14:03:58	
PB170751BS	S	Total CN	P	98.259	µg/l	11/26/2025 14:04:00	
MIDPB170751	S	Total CN	P	239.3056	µg/l	11/26/2025 14:04:03	
Q3642-02	S	Total CN	P	2.1019	µg/l	11/26/2025 14:04:05	
Q3642-02DUP	S	Total CN	P	2.1091	µg/l	11/26/2025 14:04:06	
Q3642-02MS	S	Total CN	P	37.9466	µg/l	11/26/2025 14:11:37	
Q3642-02MSD	S	Total CN	P	39.4885	µg/l	11/26/2025 14:11:39	
CCV2	S	Total CN	P	241.9594	µg/l	11/26/2025 14:11:40	
CCB2	S	Total CN	P	0.7377	µg/l	11/26/2025 14:14:20	

=====

Calibration results Aquakem 7.2AQ1 Page: 1

Alliance Technical Group
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

11/26/2025 10:23

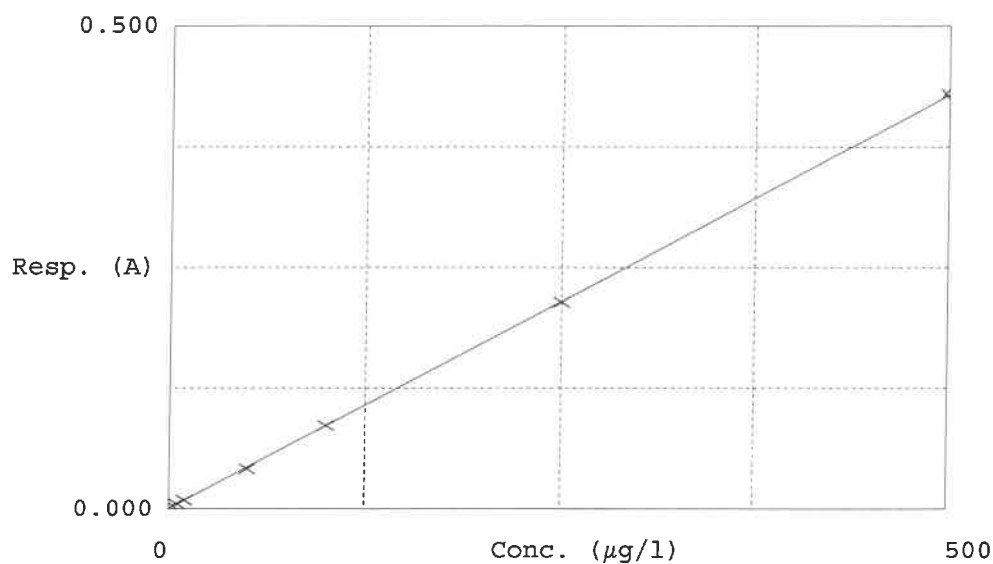
Test Total CN

Accepted 11/26/2025 10:23

Factor 1166
 Bias 0

Coeff. of det. 0.999960

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors ^{Re}
1	0.0PPBCN	0.001	1.1474	0.0000	-
2	5.0PPBCN	0.006	5.8632	5.0000	17.3
3	10PPBCN	0.009	10.1739	10.0000	1.7
4	50PPBCN	0.041	47.7328	50.0000	-4.5
5	100PPBCN	0.087	100.3321	100.0000	0.3
6	250PPBCN	0.214	249.2048	250.0000	-0.3
7	500PPBCN	0.430	500.5458	500.0000	0.1

11/26/2025
 RM

SOP ID : MSM4500-CN C,E-Cyanide-13

SDG No : N/A

Start Digest Date: 11/26/2025 Time : 10:15 Temp : 123 °C

Matrix : WATER

End Digest Date: 11/26/2025 Time : 11:45 Temp : 127 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : MC-1, MC-2

Filter paper ID : N/A

Prep Technician Signature: 

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

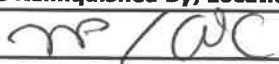
Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP113838
MS/MSD SPIKE SOL.	0.40ML	WP113837
RL CHECK	50.0ML	WP115838
PBW	50.0ML	W3112
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
50% v/v H2SO4	5.0ML	WP115334
51% w/v MgCL2	2.0ML	WP115335
pH Paper 0-14	N/A	W3241
Nitrate/Nitrite Strip	N/A	W3182
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
0.4N Sulfamic Acid	5. ML	WP115337
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	0.5ML	W3012
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	2.5ML	WP113837
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/26/2025 12:00		RMLWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170751BL	PBW751	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB170751BS	LCS751	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3642-02DUP	EFF-DAY-1-1-4CNDUP	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q3642-02MS	EFF-DAY-1-1-4CNMS	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q3642-02MSD	EFF-DAY-1-1-4CNMSD	50	50	>12	Negative	Negative	Positive	N/A	N/A
Q3642-02	EFF-DAY-1-1-4CN	50	50	>12	Negative	Negative	Positive	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : CN-Q3642

WorkList ID : 193367

Department : Distillation

Date : 11-26-2025 07:19:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3642-02	EFF-DAY-1-1-4CN	Water	Cyanide	1:1 NaOH to pH >12	F&GE01	D51	11/25/2025	SM4500-CN C

Date/Time 11/26/2025 09:00
 Raw Sample Received by: CP gm
 Raw Sample Relinquished by: CP gm

Date/Time 11/26/2025
 Raw Sample Received by: CP gm
 Raw Sample Relinquished by: CP gm

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB138054

Review By	rubina	Review On	11/26/2025 3:47:07 PM
Supervise By	Iwona	Supervise On	11/26/2025 3:48:43 PM
SubDirectory	LB138054	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115833,WP115834,WP115835,WP115836,WP115837,WP115838,WP115839		
ICV Standard	W3012		
CCV Standard	WP115834		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115840		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/26/25 10:20		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/26/25 10:20		rubina	OK
3	10PPBCN	10PPBCN	CAL3	11/26/25 10:20		rubina	OK
4	50PPBCN	50PPBCN	CAL4	11/26/25 10:20		rubina	OK
5	100PPBCN	100PPBCN	CAL5	11/26/25 10:20		rubina	OK
6	250PPBCN	250PPBCN	CAL6	11/26/25 10:20		rubina	OK
7	500PPBCN	500PPBCN	CAL7	11/26/25 10:20		rubina	OK
8	ICV1	ICV1	ICV	11/26/25 13:56		rubina	OK
9	ICB1	ICB1	ICB	11/26/25 13:56		rubina	OK
10	CCV1	CCV1	CCV	11/26/25 13:56		rubina	OK
11	CCB1	CCB1	CCB	11/26/25 13:56		rubina	OK
12	RL	RL	LOQ	11/26/25 13:56		rubina	OK
13	PB170751BL	PB170751BL	MB	11/26/25 14:03		rubina	OK
14	PB170751BS	PB170751BS	LCS	11/26/25 14:04		rubina	OK
15	MIDPB170751	MIDPB170751	SAM	11/26/25 14:04		rubina	OK
16	Q3642-02	EFF-DAY-1-1-4CN	SAM	11/26/25 14:04		rubina	OK
17	Q3642-02DUP	EFF-DAY-1-1-4CNDU	DUP	11/26/25 14:04		rubina	OK
18	Q3642-02MS	EFF-DAY-1-1-4CNMS	MS	11/26/25 14:11		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB138054

Review By	rubina	Review On	11/26/2025 3:47:07 PM
Supervise By	Iwona	Supervise On	11/26/2025 3:48:43 PM
SubDirectory	LB138054	Test	Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP115833,WP115834,WP115835,WP115836,WP115837,WP115838,WP115839		
ICV Standard	W3012		
CCV Standard	WP115834		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113838		
Chk Standard	WP115157,WP114324,WP115840		

19	Q3642-02MSD	EFF-DAY-1-1-4CNMS	MSD	11/26/25 14:11		rubina	OK
20	CCV2	CCV2	CCV	11/26/25 14:11		rubina	OK
21	CCB2	CCB2	CCB	11/26/25 14:14		rubina	OK



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 788-9222

www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q3642

COC Number:

CLIENT INFORMATION

COMPANY: Vartan Manufacturing Corp.

ADDRESS: 7 West 45th Street, Suite 705

CITY: New York STATE: NY ZIP: 10036

ATTENTION: Vartan D

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Semi Annual 2025

PROJECT #: LOCATION:

PROJECT MANAGER:

E-MAIL:

PHONE: FAX:

BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*

HARD COPY: 10 DAYS*

EDD DAYS*

* TO BE APPROVED BY ALLIANCE

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD Format

ANALYSIS

METALS GROUP 1	Cyanide								
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

Alliance SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles									
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9
1.	Effluent-Day-1-Metals	water	X		11/24	8:00 AM		X								
2.	Effluent-Day1-CN	water		X	11/24	8:30 AM			X							
3.	Effluent-Day1-1-2-CN	water		X	11/24	9:30 AM			X							
4.	Effluent-Day1-1-3-CN	water			11/24	11:30 AM			X							
5.	Effluent-Day1-1-4-CN	water		X	11/24	2:00 PM			X							
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. [Signature]	11/24/25	2. [Signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.	11/25/25	2. [Signature]
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 10.2
MeOH extraction requires an additional 4oz. Jar for percent solid
Ice in Cooler?:

Comments:

JL Gent 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

Lab Project number: Q3642

Date: 11/25/25

Client Name: VARTAN Manufacturing

Client Project Name : Semi Annual 2025

Instructions: Composite Samples (4:1)

Sample Custodian: Chen

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Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312