

## **DATA PACKAGE**

METALS

**PROJECT NAME : METAL TESTING**

**VIVA NOVA INC**

**765 2nd st**

**Secaucus, NJ - 07094**

**Phone No: 917-254-6175**

**ORDER ID : Q2828**

**ATTENTION : Sanjeev Goyal**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** Q2828

**Project ID :** Metal Testing

**Client :** Viva Nova Inc

**Lab Sample Number**

Q2828-01

**Client Sample Number**

POWDER

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

Signature : \_\_\_\_\_

Date: 8/19/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Viva Nova Inc**

**Project Name: Metal Testing**

**Project # N/A**

**Order ID # Q2828**

**Test Name: Mercury, Metals ICP-Group1**

### **A. Number of Samples and Date of Receipt:**

1 Solid sample was received on 08/11/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals Group1 and Metals ICP-Group1. This data package contains results for Mercury, Metals ICP-Group1.

### **C. Analytical Techniques:**

The analysis of Metals ICP-Group1 was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate (POWDERMSD) analysis met criteria for all compounds except for Iron and Vanadium due to Chemical Interference during Digestion process.

The Matrix Spike (POWDERMS) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium, Potassium, Selenium, Silver, Thallium and Vanadium due to Chemical Interference during Digestion process.

The Matrix Spike Duplicate (POWDERMSD) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Potassium, Selenium, Silver and Vanadium due to Chemical Interference during Digestion process.

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

The Calibration met the requirements.

The Serial Dilution (POWDERL) met criteria for all compounds except for Aluminum, Calcium, Chromium, Copper, Iron, Manganese and Zinc due to sample matrix Interference.

### **E. Additional Comments:**

The Post Digest Spike (POWDERA) analysis met criteria for all compounds except for Antimony, Arsenic, Beryllium, Chromium, Potassium, Selenium, Silver and Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

The Date and time of sampling was not listed in the COC.



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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

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

<b>J</b>	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).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	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
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2828

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/19/2025

### Hit Summary Sheet SW-846

**SDG No.:** Q2828  
**Client:** Viva Nova Inc

**Order ID:** Q2828  
**Project ID:** Metal Testing

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
<b>Client ID : POWDER</b>								
Q2828-01	POWDER	SOIL	Aluminum	7750		0.78	4.66	mg/Kg
Q2828-01	POWDER	SOIL	Antimony	4.95		0.21	2.33	mg/Kg
Q2828-01	POWDER	SOIL	Arsenic	5.28		0.18	0.93	mg/Kg
Q2828-01	POWDER	SOIL	Barium	123		0.68	4.66	mg/Kg
Q2828-01	POWDER	SOIL	Beryllium	0.95		0.023	0.28	mg/Kg
Q2828-01	POWDER	SOIL	Cadmium	4.95		0.022	0.28	mg/Kg
Q2828-01	POWDER	SOIL	Calcium	8670		10.3	93.2	mg/Kg
Q2828-01	POWDER	SOIL	Chromium	60.9		0.044	0.47	mg/Kg
Q2828-01	POWDER	SOIL	Cobalt	40.3		0.093	1.40	mg/Kg
Q2828-01	POWDER	SOIL	Copper	76.1		0.21	0.93	mg/Kg
Q2828-01	POWDER	SOIL	Iron	12000		3.72	4.66	mg/Kg
Q2828-01	POWDER	SOIL	Lead	71.4		0.12	0.56	mg/Kg
Q2828-01	POWDER	SOIL	Magnesium	1200		11.2	93.2	mg/Kg
Q2828-01	POWDER	SOIL	Manganese	207		0.13	0.93	mg/Kg
Q2828-01	POWDER	SOIL	Nickel	143		0.12	1.86	mg/Kg
Q2828-01	POWDER	SOIL	Potassium	309		25.8	93.2	mg/Kg
Q2828-01	POWDER	SOIL	Selenium	0.51	J	0.24	0.93	mg/Kg
Q2828-01	POWDER	SOIL	Silver	1.58		0.11	0.47	mg/Kg
Q2828-01	POWDER	SOIL	Sodium	872		16.6	93.2	mg/Kg
Q2828-01	POWDER	SOIL	Thallium	0.43	J	0.21	1.86	mg/Kg
Q2828-01	POWDER	SOIL	Vanadium	31.8		0.23	1.86	mg/Kg
Q2828-01	POWDER	SOIL	Zinc	240		0.21	1.86	mg/Kg



# SAMPLE DATA

## Report of Analysis

Client:	Viva Nova Inc	Date Collected:	08/11/25
Project:	Metal Testing	Date Received:	08/11/25
Client Sample ID:	POWDER	SDG No.:	Q2828
Lab Sample ID:	Q2828-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	99.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7750		1	0.78	4.66	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-36-0	Antimony	4.95	N	1	0.21	2.33	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-38-2	Arsenic	5.28	N	1	0.18	0.93	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-39-3	Barium	123		1	0.68	4.66	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-41-7	Beryllium	0.95	N	1	0.023	0.28	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-43-9	Cadmium	4.95		1	0.022	0.28	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-70-2	Calcium	8670		1	10.3	93.2	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-47-3	Chromium	60.9	N	1	0.044	0.47	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-48-4	Cobalt	40.3		1	0.093	1.40	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-50-8	Copper	76.1		1	0.21	0.93	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7439-89-6	Iron	12000	*	1	3.72	4.66	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7439-92-1	Lead	71.4		1	0.12	0.56	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7439-95-4	Magnesium	1200		1	11.2	93.2	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7439-96-5	Manganese	207		1	0.13	0.93	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.013	mg/Kg	08/11/25 16:30	08/12/25 11:46	7471B	
7440-02-0	Nickel	143		1	0.12	1.86	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-09-7	Potassium	309	N	1	25.8	93.2	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7782-49-2	Selenium	0.51	JN	1	0.24	0.93	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-22-4	Silver	1.58	N	1	0.11	0.47	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-23-5	Sodium	872		1	16.6	93.2	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-28-0	Thallium	0.43	JN	1	0.21	1.86	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-62-2	Vanadium	31.8	N*	1	0.23	1.86	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050
7440-66-6	Zinc	240		1	0.21	1.86	mg/Kg	08/12/25 12:55	08/13/25 13:07	6010D	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	
Comments:	Metals Group1			

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

LAB CHRONICLE

OrderID:	Q2828	OrderDate:	8/11/2025 2:59:46 PM
Client:	Viva Nova Inc	Project:	Metal Testing
Contact:	Sanjeev Goyal	Location:	D21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2828-01	POWDER	SOIL			08/11/25			08/11/25
			Mercury	7471B		08/11/25	08/12/25	
			Metals ICP-Group1	6010D		08/12/25	08/13/25	



# 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:

Q2828

COC Number:

CLIENT INFORMATION

COMPANY: Viva Nova  
ADDRESS:  
CITY: Gwynn STATE: ZIP:  
ATTENTION: Gayal Sanveer  
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME:  
PROJECT #: LOCATION:  
PROJECT MANAGER:  
E-MAIL:  
PHONE: FAX:

BILLING INFORMATION

BILL TO: PO#  
ADDRESS:  
CITY: STATE: ZIP:  
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: HARD COPY: 2 Days DAYS\*  
EDD DAYS\*  
\* TO BE APPROVED BY ALLIANCE  
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESEULTS 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								
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

CHEMTECH  
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
+								

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	15:00
1.	08/11/2025	yg	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

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

Page \_\_\_\_\_ of \_\_\_\_\_

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

### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488