

LAB CHRONICLE

OrderID:	P2687	OrderDate:	5/31/2024 2:04:21 PM
Client:	PSEG	Project:	Victory Laydown Yard
Contact:	John Kieffer	Location:	K21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P2687-01	VNJ-223	SOIL			05/31/24			05/31/24
			Mercury	7471B		06/04/24	06/04/24	
			Metals ICP-TAL	6010D		06/03/24	06/04/24	
P2687-03	VNJ-223	TCLP			05/31/24			05/31/24
			TCLP Mercury	7470A		06/04/24	06/05/24	
			TCLPMetals Group1	6010D		06/03/24	06/03/24	
P2687-04	72-11977	SOIL			05/31/24			05/31/24
			Mercury	7471B		06/04/24	06/04/24	
			Metals ICP-TAL	6010D		06/03/24	06/04/24	
P2687-06	72-11977	TCLP			05/31/24			05/31/24
			TCLP Mercury	7470A		06/04/24	06/05/24	
			TCLPMetals Group1	6010D		06/03/24	06/03/24	
P2687-07	72-11998	SOIL			05/31/24			05/31/24
			Mercury	7471B		06/04/24	06/04/24	
			Metals ICP-TAL	6010D		06/03/24	06/04/24	
P2687-09	72-11998	TCLP			05/31/24			05/31/24
			TCLP Mercury	7470A		06/04/24	06/05/24	
			TCLPMetals Group1	6010D		06/03/24	06/03/24	

Hit Summary Sheet
SW-846

SDG No.: P2687

Order ID: P2687

Client: PSEG

Project ID: Victory Laydown Yard

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : VNJ-223								
P2687-03	VNJ-223	TCLP	Barium	2340		62.8	500	ug/L
P2687-03	VNJ-223	TCLP	Cadmium	5.80	J	0.94	30.0	ug/L
P2687-03	VNJ-223	TCLP	Nickel	20.2	J	8.50	200	ug/L
P2687-03	VNJ-223	TCLP	Silver	6.00	J	5.80	50.0	ug/L
P2687-03	VNJ-223	TCLP	Zinc	443		17.5	200	ug/L
Client ID : 72-11977								
P2687-06	72-11977	TCLP	Barium	2940		62.8	500	ug/L
P2687-06	72-11977	TCLP	Cadmium	3.01	J	0.94	30.0	ug/L
P2687-06	72-11977	TCLP	Nickel	30.8	J	8.50	200	ug/L
P2687-06	72-11977	TCLP	Zinc	358		17.5	200	ug/L
Client ID : 72-11998								
P2687-09	72-11998	TCLP	Barium	2560		62.8	500	ug/L
P2687-09	72-11998	TCLP	Cadmium	3.66	J	0.94	30.0	ug/L
P2687-09	72-11998	TCLP	Nickel	65.8	J	8.50	200	ug/L
P2687-09	72-11998	TCLP	Silver	7.91	J	5.80	50.0	ug/L
P2687-09	72-11998	TCLP	Zinc	547		17.5	200	ug/L



SAMPLE DATA

Report of Analysis

Client:	PSEG	Date Collected:	05/31/24
Project:	Victory Laydown Yard	Date Received:	05/31/24
Client Sample ID:	VNJ-223	SDG No.:	P2687
Lab Sample ID:	P2687-03	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	34.8	100	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-39-3	Barium	2340		1	62.8	500	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-43-9	Cadmium	5.80	J	1	0.94	30.0	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	6.60	50.0	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-50-8	Copper	100	U	1	70.7	100	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7439-92-1	Lead	60.0	U	1	35.1	60.0	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.81	2.00	ug/L	06/04/24 13:05	06/05/24 13:12	SW7470A	
7440-02-0	Nickel	20.2	J	1	8.50	200	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7782-49-2	Selenium	100	U	1	58.8	100	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-22-4	Silver	6.00	J	1	5.80	50.0	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050
7440-66-6	Zinc	443		1	17.5	200	ug/L	06/03/24 11:45	06/03/24 17:05	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Full Waste Calssificatioin-TCLP			

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

Report of Analysis

Client:	PSEG	Date Collected:	05/31/24
Project:	Victory Laydown Yard	Date Received:	05/31/24
Client Sample ID:	72-11977	SDG No.:	P2687
Lab Sample ID:	P2687-06	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	34.8	100	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-39-3	Barium	2940		1	62.8	500	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-43-9	Cadmium	3.01	J	1	0.94	30.0	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	6.60	50.0	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-50-8	Copper	100	U	1	70.7	100	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7439-92-1	Lead	60.0	U	1	35.1	60.0	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.81	2.00	ug/L	06/04/24 13:05	06/05/24 13:15	SW7470A	
7440-02-0	Nickel	30.8	J	1	8.50	200	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7782-49-2	Selenium	100	U	1	58.8	100	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-22-4	Silver	50.0	U	1	5.80	50.0	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050
7440-66-6	Zinc	358		1	17.5	200	ug/L	06/03/24 11:45	06/03/24 17:10	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Full Waste Calssificatioin-TCLP			

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 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	PSEG	Date Collected:	05/31/24
Project:	Victory Laydown Yard	Date Received:	05/31/24
Client Sample ID:	72-11998	SDG No.:	P2687
Lab Sample ID:	P2687-09	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	100	U	1	34.8	100	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-39-3	Barium	2560		1	62.8	500	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-43-9	Cadmium	3.66	J	1	0.94	30.0	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-47-3	Chromium	50.0	U	1	6.60	50.0	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-50-8	Copper	100	U	1	70.7	100	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7439-92-1	Lead	60.0	U	1	35.1	60.0	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7439-97-6	Mercury	2.00	U	1	0.81	2.00	ug/L	06/04/24 13:05	06/05/24 13:17	SW7470A	
7440-02-0	Nickel	65.8	J	1	8.50	200	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7782-49-2	Selenium	100	U	1	58.8	100	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-22-4	Silver	7.91	J	1	5.80	50.0	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050
7440-66-6	Zinc	547		1	17.5	200	ug/L	06/03/24 11:45	06/03/24 17:36	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Full Waste Calssificatioin-TCLP			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV75	Mercury	4.08	4.0	102	90 - 110	CV	06/05/2024	12:11	LB131063

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV84	Mercury	4.95	5.0	99	90 - 110	CV	06/05/2024	12:21	LB131063
CCV85	Mercury	5.11	5.0	102	90 - 110	CV	06/05/2024	13:03	LB131063
CCV86	Mercury	4.84	5.0	97	90 - 110	CV	06/05/2024	13:41	LB131063
CCV87	Mercury	4.69	5.0	94	90 - 110	CV	06/05/2024	14:19	LB131063

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG SDG No.: P2687
Contract: PSEG03 Lab Code: CHEM Case No.: P2687 SAS No.: P2687
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1010	1000	101	90 - 110	P	06/03/2024	12:04	LB131042
	Barium	493	520	95	90 - 110	P	06/03/2024	12:04	LB131042
	Cadmium	495	510	97	90 - 110	P	06/03/2024	12:04	LB131042
	Chromium	510	520	98	90 - 110	P	06/03/2024	12:04	LB131042
	Copper	502	510	98	90 - 110	P	06/03/2024	12:04	LB131042
	Lead	987	1000	99	90 - 110	P	06/03/2024	12:04	LB131042
	Nickel	486	530	92	90 - 110	P	06/03/2024	12:04	LB131042
	Selenium	1020	1000	102	90 - 110	P	06/03/2024	12:04	LB131042
	Silver	247	250	99	90 - 110	P	06/03/2024	12:04	LB131042
	Zinc	1040	1000	104	90 - 110	P	06/03/2024	12:04	LB131042

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Arsenic	18.2	20.0	91	80 - 120	P	06/03/2024	12:18	LB131042
	Barium	100	100	100	80 - 120	P	06/03/2024	12:18	LB131042
	Cadmium	6.11	6.0	102	80 - 120	P	06/03/2024	12:18	LB131042
	Chromium	9.48	10.0	95	80 - 120	P	06/03/2024	12:18	LB131042
	Copper	20.3	20.0	102	80 - 120	P	06/03/2024	12:18	LB131042
	Lead	12.7	12.0	105	80 - 120	P	06/03/2024	12:18	LB131042
	Nickel	38.5	40.0	96	80 - 120	P	06/03/2024	12:18	LB131042
	Selenium	19.4	20.0	97	80 - 120	P	06/03/2024	12:18	LB131042
	Silver	10.4	10.0	104	80 - 120	P	06/03/2024	12:18	LB131042
	Zinc	42.9	40.0	107	80 - 120	P	06/03/2024	12:18	LB131042

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4870	5000	97	90 - 110	P	06/03/2024	12:46	LB131042
	Barium	9760	10000	98	90 - 110	P	06/03/2024	12:46	LB131042
	Cadmium	2420	2500	97	90 - 110	P	06/03/2024	12:46	LB131042
	Chromium	954	1000	95	90 - 110	P	06/03/2024	12:46	LB131042
	Copper	1220	1250	98	90 - 110	P	06/03/2024	12:46	LB131042
	Lead	4900	5000	98	90 - 110	P	06/03/2024	12:46	LB131042
	Nickel	2430	2500	97	90 - 110	P	06/03/2024	12:46	LB131042
	Selenium	4880	5000	98	90 - 110	P	06/03/2024	12:46	LB131042
	Silver	1180	1250	95	90 - 110	P	06/03/2024	12:46	LB131042
	Zinc	2480	2500	99	90 - 110	P	06/03/2024	12:46	LB131042
CCV02	Arsenic	4790	5000	96	90 - 110	P	06/03/2024	13:44	LB131042
	Barium	9550	10000	96	90 - 110	P	06/03/2024	13:44	LB131042
	Cadmium	2370	2500	95	90 - 110	P	06/03/2024	13:44	LB131042
	Chromium	927	1000	93	90 - 110	P	06/03/2024	13:44	LB131042
	Copper	1200	1250	96	90 - 110	P	06/03/2024	13:44	LB131042
	Lead	4830	5000	97	90 - 110	P	06/03/2024	13:44	LB131042
	Nickel	2380	2500	95	90 - 110	P	06/03/2024	13:44	LB131042
	Selenium	4830	5000	97	90 - 110	P	06/03/2024	13:44	LB131042
	Silver	1160	1250	92	90 - 110	P	06/03/2024	13:44	LB131042
	Zinc	2420	2500	97	90 - 110	P	06/03/2024	13:44	LB131042
CCV03	Arsenic	4710	5000	94	90 - 110	P	06/03/2024	14:37	LB131042
	Barium	9560	10000	96	90 - 110	P	06/03/2024	14:37	LB131042
	Cadmium	2360	2500	94	90 - 110	P	06/03/2024	14:37	LB131042
	Chromium	915	1000	92	90 - 110	P	06/03/2024	14:37	LB131042
	Copper	1180	1250	94	90 - 110	P	06/03/2024	14:37	LB131042
	Lead	4770	5000	95	90 - 110	P	06/03/2024	14:37	LB131042
	Nickel	2360	2500	94	90 - 110	P	06/03/2024	14:37	LB131042
	Selenium	4770	5000	95	90 - 110	P	06/03/2024	14:37	LB131042
	Silver	1130	1250	91	90 - 110	P	06/03/2024	14:37	LB131042
	Zinc	2350	2500	94	90 - 110	P	06/03/2024	14:37	LB131042
CCV04	Arsenic	4940	5000	99	90 - 110	P	06/03/2024	15:34	LB131042
	Barium	10100	10000	101	90 - 110	P	06/03/2024	15:34	LB131042
	Cadmium	2460	2500	98	90 - 110	P	06/03/2024	15:34	LB131042
	Chromium	967	1000	97	90 - 110	P	06/03/2024	15:34	LB131042

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG SDG No.: P2687
Contract: PSEG03 Lab Code: CHEM Case No.: P2687 SAS No.: P2687
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Copper	1230	1250	99	90 - 110	P	06/03/2024	15:34	LB131042
	Lead	5000	5000	100	90 - 110	P	06/03/2024	15:34	LB131042
	Nickel	2480	2500	99	90 - 110	P	06/03/2024	15:34	LB131042
	Selenium	4970	5000	100	90 - 110	P	06/03/2024	15:34	LB131042
	Silver	1180	1250	94	90 - 110	P	06/03/2024	15:34	LB131042
	Zinc	2460	2500	99	90 - 110	P	06/03/2024	15:34	LB131042
CCV05	Arsenic	4680	5000	94	90 - 110	P	06/03/2024	16:20	LB131042
	Barium	9730	10000	97	90 - 110	P	06/03/2024	16:20	LB131042
	Cadmium	2340	2500	94	90 - 110	P	06/03/2024	16:20	LB131042
	Chromium	923	1000	92	90 - 110	P	06/03/2024	16:20	LB131042
	Copper	1160	1250	93	90 - 110	P	06/03/2024	16:20	LB131042
	Lead	4750	5000	95	90 - 110	P	06/03/2024	16:20	LB131042
	Nickel	2340	2500	94	90 - 110	P	06/03/2024	16:20	LB131042
	Selenium	4710	5000	94	90 - 110	P	06/03/2024	16:20	LB131042
	Silver	1130	1250	90	90 - 110	P	06/03/2024	16:20	LB131042
	Zinc	2370	2500	95	90 - 110	P	06/03/2024	16:20	LB131042
CCV06	Arsenic	5020	5000	100	90 - 110	P	06/03/2024	17:27	LB131042
	Barium	10100	10000	101	90 - 110	P	06/03/2024	17:27	LB131042
	Cadmium	2470	2500	99	90 - 110	P	06/03/2024	17:27	LB131042
	Chromium	946	1000	95	90 - 110	P	06/03/2024	17:27	LB131042
	Copper	1240	1250	99	90 - 110	P	06/03/2024	17:27	LB131042
	Lead	5060	5000	101	90 - 110	P	06/03/2024	17:27	LB131042
	Nickel	2480	2500	99	90 - 110	P	06/03/2024	17:27	LB131042
	Selenium	5050	5000	101	90 - 110	P	06/03/2024	17:27	LB131042
	Silver	1170	1250	93	90 - 110	P	06/03/2024	17:27	LB131042
	Zinc	2520	2500	101	90 - 110	P	06/03/2024	17:27	LB131042
	Arsenic	5040	5000	101	90 - 110	P	06/03/2024	18:35	LB131042
	Barium	10600	10000	106	90 - 110	P	06/03/2024	18:35	LB131042
CCV07	Cadmium	2470	2500	99	90 - 110	P	06/03/2024	18:35	LB131042
	Chromium	959	1000	96	90 - 110	P	06/03/2024	18:35	LB131042
	Copper	1240	1250	100	90 - 110	P	06/03/2024	18:35	LB131042
	Lead	5140	5000	103	90 - 110	P	06/03/2024	18:35	LB131042
	Nickel	2490	2500	100	90 - 110	P	06/03/2024	18:35	LB131042
	Selenium	5060	5000	101	90 - 110	P	06/03/2024	18:35	LB131042

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Silver	1190	1250	95	90 - 110	P	06/03/2024	18:35	LB131042
	Zinc	2600	2500	104	90 - 110	P	06/03/2024	18:35	LB131042



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Arsenic	17.1	20.0	85	40 - 160	P	06/03/2024	12:28	LB131042
	Barium	99.1	100	99	40 - 160	P	06/03/2024	12:28	LB131042
	Cadmium	6.33	6.0	106	40 - 160	P	06/03/2024	12:28	LB131042
	Chromium	9.51	10.0	95	40 - 160	P	06/03/2024	12:28	LB131042
	Copper	21.1	20.0	105	40 - 160	P	06/03/2024	12:28	LB131042
	Lead	12.2	12.0	102	40 - 160	P	06/03/2024	12:28	LB131042
	Nickel	40.3	40.0	101	40 - 160	P	06/03/2024	12:28	LB131042
	Selenium	19.6	20.0	98	40 - 160	P	06/03/2024	12:28	LB131042
	Silver	10.6	10.0	106	40 - 160	P	06/03/2024	12:28	LB131042
	Zinc	44.9	40.0	112	40 - 160	P	06/03/2024	12:28	LB131042
CRA	Mercury	0.15	0.2	76	40 - 160	CV	06/05/2024	12:38	LB131063



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	PSEG				SDG No.:	P2687				
Contract:	PSEG03		Lab Code:	CHEM		Case No.:	P2687		SAS No.:	P2687
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB75	Mercury	0.20	+/-0.20	U	0.20	CV	06/05/2024	12:14	LB131063	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB84	Mercury	0.20	+/-0.20	U	0.20	CV	06/05/2024	12:23	LB131063
CCB85	Mercury	0.20	+/-0.20	U	0.20	CV	06/05/2024	13:05	LB131063
CCB86	Mercury	0.20	+/-0.20	U	0.20	CV	06/05/2024	13:43	LB131063
CCB87	Mercury	0.20	+/-0.20	U	0.20	CV	06/05/2024	14:21	LB131063

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	12:23	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	12:23	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	12:23	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	12:23	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	12:23	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	12:23	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	12:23	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	12:23	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	12:23	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	12:23	LB131042

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>PSEG</u>		SDG No.: <u>P2687</u>							
Contract: <u>PSEG03</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P2687</u>	SAS No.: <u>P2687</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	12:50	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	12:50	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	12:50	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	12:50	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	12:50	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	12:50	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	12:50	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	12:50	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	12:50	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	12:50	LB131042
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	13:48	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	13:48	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	13:48	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	13:48	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	13:48	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	13:48	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	13:48	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	13:48	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	13:48	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	13:48	LB131042
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	14:47	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	14:47	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	14:47	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	14:47	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	14:47	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	14:47	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	14:47	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	14:47	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	14:47	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	14:47	LB131042
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	15:38	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	15:38	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	15:38	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	15:38	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	15:38	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	15:38	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	15:38	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	15:38	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	15:38	LB131042

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>PSEG</u>		SDG No.: <u>P2687</u>							
Contract: <u>PSEG03</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P2687</u>	SAS No.: <u>P2687</u>						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	15:38	LB131042
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	16:24	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	16:24	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	16:24	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	16:24	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	16:24	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	16:24	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	16:24	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	16:24	LB131042
	Silver	10.0	+/-10.0	U	10.0	P	06/03/2024	16:24	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	16:24	LB131042
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	17:31	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	17:31	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	17:31	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	17:31	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	17:31	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	17:31	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	17:31	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	17:31	LB131042
	Silver	1.31	+/-10.0	J	10.0	P	06/03/2024	17:31	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	17:31	LB131042
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	06/03/2024	18:39	LB131042
	Barium	100	+/-100	U	100	P	06/03/2024	18:39	LB131042
	Cadmium	6.00	+/-6.00	U	6.00	P	06/03/2024	18:39	LB131042
	Chromium	10.0	+/-10.0	U	10.0	P	06/03/2024	18:39	LB131042
	Copper	20.0	+/-20.0	U	20.0	P	06/03/2024	18:39	LB131042
	Lead	12.0	+/-12.0	U	12.0	P	06/03/2024	18:39	LB131042
	Nickel	40.0	+/-40.0	U	40.0	P	06/03/2024	18:39	LB131042
	Selenium	20.0	+/-20.0	U	20.0	P	06/03/2024	18:39	LB131042
	Silver	1.33	+/-10.0	J	10.0	P	06/03/2024	18:39	LB131042
	Zinc	40.0	+/-40.0	U	40.0	P	06/03/2024	18:39	LB131042

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: PSEG

SDG No.: P2687

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB161253TB		WATER		Batch Number:	PB161315		Prep Date:	06/04/2024	
	Mercury	2.00	<2.00	U	2.00	CV	06/05/2024	14:07	LB131063
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB161315BL		WATER		Batch Number:	PB161315		Prep Date:	06/04/2024	
	Mercury	0.20	<0.20	U	0.20	CV	06/05/2024	12:41	LB131063

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: PSEG

SDG No.: P2687

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB161253TB		WATER		Batch Number:	PB161289		Prep Date:	06/03/2024	
	Arsenic	100	<100	U	100	P	06/03/2024	18:06	LB131042
	Barium	500	<500	U	500	P	06/03/2024	18:06	LB131042
	Cadmium	30.0	<30.0	U	30.0	P	06/03/2024	18:06	LB131042
	Chromium	22.7	<50.0	J	50.0	P	06/03/2024	18:06	LB131042
	Copper	100	<100	U	100	P	06/03/2024	18:06	LB131042
	Lead	60.0	<60.0	U	60.0	P	06/03/2024	18:06	LB131042
	Nickel	13.9	<200	J	200	P	06/03/2024	18:06	LB131042
	Selenium	100	<100	U	100	P	06/03/2024	18:06	LB131042
	Silver	6.98	<50.0	J	50.0	P	06/03/2024	18:06	LB131042
	Zinc	67.5	<200	J	200	P	06/03/2024	18:06	LB131042
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB161289BL		WATER		Batch Number:	PB161289		Prep Date:	06/03/2024	
	Arsenic	100	<100	U	100	P	06/03/2024	18:11	LB131042
	Barium	500	<500	U	500	P	06/03/2024	18:11	LB131042
	Cadmium	30.0	<30.0	U	30.0	P	06/03/2024	18:11	LB131042
	Chromium	50.0	<50.0	U	50.0	P	06/03/2024	18:11	LB131042
	Copper	100	<100	U	100	P	06/03/2024	18:11	LB131042
	Lead	60.0	<60.0	U	60.0	P	06/03/2024	18:11	LB131042
	Nickel	200	<200	U	200	P	06/03/2024	18:11	LB131042
	Selenium	100	<100	U	100	P	06/03/2024	18:11	LB131042
	Silver	6.51	<50.0	J	50.0	P	06/03/2024	18:11	LB131042
	Zinc	200	<200	U	200	P	06/03/2024	18:11	LB131042

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Arsenic	-5.16			-20	20	06/03/2024	12:33	LB131042
	Barium	5.98	6.0	100	-94	106	06/03/2024	12:33	LB131042
	Cadmium	3.49	1.0	349	-5	7	06/03/2024	12:33	LB131042
	Chromium	52.4	52.0	101	42	62	06/03/2024	12:33	LB131042
	Copper	-7.28	2.0	364	-18	22	06/03/2024	12:33	LB131042
	Lead	7.89			-12	12	06/03/2024	12:33	LB131042
	Nickel	3.18	2.0	159	-38	42	06/03/2024	12:33	LB131042
	Selenium	-17.4			-20	20	06/03/2024	12:33	LB131042
	Silver	-8.28			-10	10	06/03/2024	12:33	LB131042
	Zinc	1.38			-40	40	06/03/2024	12:33	LB131042
ICSAB01	Arsenic	103	104	99	88.4	120	06/03/2024	12:42	LB131042
	Barium	527	537	98	437	637	06/03/2024	12:42	LB131042
	Cadmium	1000	972	103	826	1120	06/03/2024	12:42	LB131042
	Chromium	523	542	96	460	624	06/03/2024	12:42	LB131042
	Copper	478	511	94	434	588	06/03/2024	12:42	LB131042
	Lead	54.6	49.0	111	37	61	06/03/2024	12:42	LB131042
	Nickel	977	954	102	810	1100	06/03/2024	12:42	LB131042
	Selenium	35.9	46.0	78	26	66	06/03/2024	12:42	LB131042
	Silver	190	201	94	170	232	06/03/2024	12:42	LB131042
	Zinc	1040	952	109	809	1095	06/03/2024	12:42	LB131042



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>PSEG</u>	level: <u>low</u>	sdg no.: <u>P2687</u>
contract: <u>PSEG03</u>	lab code: <u>CHEM</u>	case no.: <u>P2687</u> sas no.: <u>P2687</u>
matrix: <u>Water</u>	sample id: <u>P2687-09</u>	client id: <u>72-11998MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P2687-09MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4060		100	U	4000	102		P
Barium	ug/L	75 - 125	3630		2560		1000	106		P
Cadmium	ug/L	75 - 125	952		3.66	J	1000	95		P
Chromium	ug/L	75 - 125	1710		50.0	U	2000	86		P
Copper	ug/L	75 - 125	1370		100	U	1500	91		P
Lead	ug/L	75 - 125	4870		60.0	U	5000	97		P
Mercury	ug/L	75 - 125	46.5		2.00	U	40.0	116		CV
Nickel	ug/L	75 - 125	2370		65.8	J	2500	92		P
Selenium	ug/L	75 - 125	10400		100	U	10000	104		P
Silver	ug/L	75 - 125	343		7.91	J	380	88		P
Zinc	ug/L	75 - 125	1590		547		1000	105		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>PSEG</u>	level: <u>low</u>	sdg no.: <u>P2687</u>
contract: <u>PSEG03</u>	lab code: <u>CHEM</u>	case no.: <u>P2687</u> sas no.: <u>P2687</u>
matrix: <u>Water</u>	sample id: <u>P2687-09</u>	client id: <u>72-11998MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P2687-09MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4130		100	U	4000	103		P
Barium	ug/L	75 - 125	3570		2560		1000	100		P
Cadmium	ug/L	75 - 125	964		3.66	J	1000	96		P
Chromium	ug/L	75 - 125	1670		50.0	U	2000	84		P
Copper	ug/L	75 - 125	1380		100	U	1500	92		P
Lead	ug/L	75 - 125	4930		60.0	U	5000	99		P
Mercury	ug/L	75 - 125	45.5		2.00	U	40.0	114		CV
Nickel	ug/L	75 - 125	2400		65.8	J	2500	93		P
Selenium	ug/L	75 - 125	10500		100	U	10000	105		P
Silver	ug/L	75 - 125	333		7.91	J	380	86		P
Zinc	ug/L	75 - 125	1570		547		1000	102		P

Metals
- 5b -

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Matrix: **Level:** LOW **Client ID:**
Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M
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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: PSEG **Level:** LOW **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Matrix: Water **Sample ID:** P2687-09 **Client ID:** 72-11998DUP
Percent Solids for Sample: NA **Duplicate ID** P2687-09DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	2560		2830		10		P
Cadmium	ug/L	20	3.66	J	3.81	J	4		P
Chromium	ug/L	20	50.0	U	50.0	U			P
Copper	ug/L	20	100	U	100	U			P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Nickel	ug/L	20	65.8	J	64.4	J	2		P
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	7.91	J	50.0	U	200.0		P
Zinc	ug/L	20	547		549		0		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: PSEG **Level:** LOW **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687
Matrix: Water **Sample ID:** P2687-09MS **Client ID:** 72-11998MSD
Percent Solids for Sample: NA **Duplicate ID** P2687-09MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4060		4130		2		P
Barium	ug/L	20	3630		3570		2		P
Cadmium	ug/L	20	952		964		1		P
Chromium	ug/L	20	1710		1670		2		P
Copper	ug/L	20	1370		1380		1		P
Lead	ug/L	20	4870		4930		1		P
Mercury	ug/L	20	46.5		45.5		2		CV
Nickel	ug/L	20	2370		2400		1		P
Selenium	ug/L	20	10400		10500		1		P
Silver	ug/L	20	343		333		3		P
Zinc	ug/L	20	1590		1570		1		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB161289BS							
Arsenic	ug/L	4000	3980		100	80 - 120	P
Barium	ug/L	1000	960		96	80 - 120	P
Cadmium	ug/L	1000	941		94	80 - 120	P
Chromium	ug/L	2000	1850		92	80 - 120	P
Copper	ug/L	1500	1450		97	80 - 120	P
Lead	ug/L	5000	4900		98	80 - 120	P
Nickel	ug/L	2500	2320		93	80 - 120	P
Selenium	ug/L	10000	9740		97	80 - 120	P
Silver	ug/L	380	344		90	80 - 120	P
Zinc	ug/L	1000	1020		102	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: PSEG **SDG No.:** P2687
Contract: PSEG03 **Lab Code:** CHEM **Case No.:** P2687 **SAS No.:** P2687

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB161315BS Mercury	ug/L	4.0	3.98		100	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

72-11998L

Lab Name: Chemtech Consulting Group

Contract: PSEG03

Lab Code: CHEM **Lb No.:** lb131042 **Lab Sample ID :** P2687-09L **SDG No.:** P2687

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
		C		C			
Arsenic	100	U	500	U			P
Barium	2560		2680		4		P
Cadmium	3.66	J	150	U	100.0		P
Chromium	50.0	U	250	U			P
Copper	100	U	500	U			P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Nickel	65.8	J	63.1	J	4		P
Selenium	100	U	500	U			P
Silver	7.91	J	30.3	J	283		P
Zinc	547		514	J	6		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: PSEG

SDG No.: P2687

Contract: PSEG03

Lab Code: CHEM

Case No.: P2687

SAS No.: P2687

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: PSEG

SDG No.: P2687

Contract: PSEG03

Lab Code: CHEM

Case No.: P2687

SAS No.: P2687

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: PSEG

SDG No.: P2687

Contract: PSEG03

Lab Code: CHEM

Case No.: P2687

SAS No.: P2687

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: PSEG

SDG No.: P2687

Contract: PSEG03

Lab Code: CHEM

Case No.: P2687

SAS No.: P2687

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: PSEG

SDG No.: P2687

Contract: PSEG03

Lab Code: CHEM

Case No.: P2687

SAS No.: P2687

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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LINEAR RANGES

Client:	<u>PSEG</u>	SDG No.:	<u>P2687</u>
Contract:	<u>PSEG03</u>	Lab Code:	<u>CHEM</u>
Instrument ID:	<u>P4</u>	Case No.:	<u>P2687</u>
		SAS No.:	<u>P2687</u>
		Date:	<u>01/04/2018</u>

Analyte	Integration	LDR
	Time (sec)	
		ug/L
Arsenic	10	81000
Barium	10	90000
Cadmium	10	9000
Chromium	10	90000
Copper	10	333000
Lead	10	225000
Nickel	10	90000
Selenium	10	90000
Silver	10	9000
Zinc	10	45000

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>PSEG</u>	SDG No.:	<u>P2687</u>
Contract:	<u>PSEG03</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P2687</u>
		SAS No.:	<u>P2687</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB161289							
P2687-03	VNJ-223	SAM	WATER	06/03/2024	5.0	25.0	
P2687-06	72-11977	SAM	WATER	06/03/2024	5.0	25.0	
P2687-09	72-11998	SAM	WATER	06/03/2024	5.0	25.0	
P2687-09DUP	72-11998DUP	DUP	WATER	06/03/2024	5.0	25.0	
P2687-09MS	72-11998MS	MS	WATER	06/03/2024	5.0	25.0	
P2687-09MSD	72-11998MSD	MSD	WATER	06/03/2024	5.0	25.0	
PB161253TB	PB161253TB	MB	WATER	06/03/2024	5.0	25.0	
PB161289BL	PB161289BL	MB	WATER	06/03/2024	5.0	25.0	
PB161289BS	PB161289BS	LCS	WATER	06/03/2024	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>PSEG</u>	SDG No.:	<u>P2687</u>
Contract:	<u>PSEG03</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P2687</u>
		SAS No.:	<u>P2687</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB161315							
P2687-03	VNJ-223	SAM	WATER	06/04/2024	3.0	30.0	
P2687-06	72-11977	SAM	WATER	06/04/2024	3.0	30.0	
P2687-09	72-11998	SAM	WATER	06/04/2024	3.0	30.0	
P2687-09DUP	72-11998DUP	DUP	WATER	06/04/2024	3.0	30.0	
P2687-09MS	72-11998MS	MS	WATER	06/04/2024	3.0	30.0	
P2687-09MSD	72-11998MSD	MSD	WATER	06/04/2024	3.0	30.0	
PB161253TB	PB161253TB	MB	WATER	06/04/2024	3.0	30.0	
PB161315BL	PB161315BL	MB	WATER	06/04/2024	30.0	30.0	
PB161315BS	PB161315BS	LCS	WATER	06/04/2024	30.0	30.0	

metals
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ANALYSIS RUN LOG

Client: PSEG **Contract:** PSEG03

Lab code: CHEM **Case no.:** P2687 **Sas no.:** P2687 **Sdg no.:** P2687

Instrument id number: **Method:** **Run number:** LB131042

Start date: 06/03/2024 **End date:** 06/03/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1136	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
S1	S1	1	1141	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
S2	S2	1	1145	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
S3	S3	1	1149	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
S4	S4	1	1154	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
S5	S5	1	1200	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
ICV01	ICV01	1	1204	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
LLICV01	LLICV01	1	1218	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
ICB01	ICB01	1	1223	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CRI01	CRI01	1	1228	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
ICSA01	ICSA01	1	1233	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
ICSAB01	ICSAB01	1	1242	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV01	CCV01	1	1246	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB01	CCB01	1	1250	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV02	CCV02	1	1344	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB02	CCB02	1	1348	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV03	CCV03	1	1437	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB03	CCB03	1	1447	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV04	CCV04	1	1534	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB04	CCB04	1	1538	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV05	CCV05	1	1620	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB05	CCB05	1	1624	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-03	VNJ-223	1	1705	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-06	72-11977	1	1710	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV06	CCV06	1	1727	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB06	CCB06	1	1731	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-09	72-11998	1	1736	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-09DUP	72-11998DUP	1	1740	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-09L	72-11998L	5	1745	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-09MS	72-11998MS	1	1749	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
P2687-09MSD	72-11998MSD	1	1754	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
PB161253TB	PB161253TB	1	1806	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
PB161289BL	PB161289BL	1	1811	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
PB161289BS	PB161289BS	1	1816	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCV07	CCV07	1	1835	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn
CCB07	CCB07	1	1839	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Zn

metals
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ANALYSIS RUN LOG

Client: PSEG **Contract:** PSEG03

Lab code: CHEM **Case no.:** P2687 **Sas no.:** P2687 **Sdg no.:** P2687

Instrument id number: **Method:** **Run number:** LB131063

Start date: 06/05/2024 **End date:** 06/05/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1154	HG
S0.2	S0.2	1	1157	HG
S2.5	S2.5	1	1159	HG
S5	S5	1	1201	HG
S7.5	S7.5	1	1204	HG
S10	S10	1	1206	HG
ICV75	ICV75	1	1211	HG
ICB75	ICB75	1	1214	HG
CCV84	CCV84	1	1221	HG
CCB84	CCB84	1	1223	HG
CRA	CRA	1	1238	HG
PB161315BL	PB161315BL	1	1241	HG
PB161315BS	PB161315BS	1	1246	HG
CCV85	CCV85	1	1303	HG
CCB85	CCB85	1	1305	HG
P2687-03	VNJ-223	1	1312	HG
P2687-06	72-11977	1	1315	HG
P2687-09	72-11998	1	1317	HG
P2687-09DUP	72-11998DUP	1	1319	HG
P2687-09MS	72-11998MS	1	1321	HG
P2687-09MSD	72-11998MSD	1	1324	HG
CCV86	CCV86	1	1341	HG
CCB86	CCB86	1	1343	HG
PB161253TB	PB161253TB	1	1407	HG
P2687-09L	72-11998L	5	1410	HG
CCV87	CCV87	1	1419	HG
CCB87	CCB87	1	1421	HG