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

Hit Summary Sheet
SW-846

SDG No.: Q3649 **Order ID:** Q3649

Client: HDR, Inc. **Project ID:** PVWC Linear Construction

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B4-0.0-0.5-20251114								
Q3649-07	B4-0.0-0.5-20251114	TCLP	Barium	1070		72.8	500	ug/L
Q3649-07	B4-0.0-0.5-20251114	TCLP	Chromium	43.9	J	10.6	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	HDR, Inc.	Date Collected:	11/14/25
Project:	PVWC Linear Construction	Date Received:	11/14/25
Client Sample ID:	B4-0.0-0.5-20251114	SDG No.:	Q3649
Lab Sample ID:	Q3649-07	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	25.6	U	1	25.6	100	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7440-39-3	Barium	1070		1	72.8	500	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7440-47-3	Chromium	43.9	J	1	10.6	50.0	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7439-92-1	Lead	11.5	U	1	11.5	60.0	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	11/17/25 10:35	11/17/25 15:55	7470A	M7470A
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	11/17/25 12:30	11/17/25 18:50	6010D	M3010A

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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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB118	Mercury	0.076	+/-0.2	U	0.20	CV	11/17/2025	15:19	LB137920

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Mercury	0.076	+/-0.2	U	0.20	CV	11/17/2025	15:23	LB137920
CCB05	Mercury	0.076	+/-0.2	U	0.20	CV	11/17/2025	15:51	LB137920
CCB06	Mercury	0.076	+/-0.2	U	0.20	CV	11/17/2025	16:14	LB137920

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	13:31	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	13:31	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	13:31	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	13:31	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	13:31	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	13:31	LB137929

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	14:01	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	14:01	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	14:01	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	14:01	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	14:01	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	14:01	LB137929
CCB02	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	14:51	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	14:51	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	14:51	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	14:51	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	14:51	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	14:51	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	14:51	LB137929
CCB03	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	15:48	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	15:48	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	15:48	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	15:48	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	15:48	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	15:48	LB137929
CCB04	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	16:38	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	16:38	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	16:38	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	16:38	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	16:38	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	16:38	LB137929
CCB05	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	17:28	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	17:28	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	17:28	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	17:28	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	17:28	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	17:28	LB137929
CCB06	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	18:19	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	18:19	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	18:19	LB137929

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	11/17/2025	18:19	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	18:19	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	18:19	LB137929
CCB07	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	19:11	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	19:11	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	19:11	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	19:11	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	19:11	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	19:11	LB137929
CCB08	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	19:28	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	19:28	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	19:28	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	19:28	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	19:28	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	19:28	LB137929
CCB09	Arsenic	5.12	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Barium	14.6	+/-50	U	100	P	11/17/2025	20:02	LB137929
	Cadmium	0.50	+/-3	U	6.00	P	11/17/2025	20:02	LB137929
	Chromium	2.12	+/-5	U	10.0	P	11/17/2025	20:02	LB137929
	Lead	2.30	+/-6	U	12.0	P	11/17/2025	20:02	LB137929
	Selenium	9.64	+/-10	U	20.0	P	11/17/2025	20:02	LB137929
	Silver	1.62	+/-5	U	10.0	P	11/17/2025	20:02	LB137929

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	11/20/2025	13:21	LB137997
	Barium	14.6	+/-50	U	100	P	11/20/2025	13:21	LB137997
	Cadmium	0.50	+/-3	U	6.00	P	11/20/2025	13:21	LB137997
	Chromium	2.12	+/-5	U	10.0	P	11/20/2025	13:21	LB137997
	Lead	2.30	+/-6	U	12.0	P	11/20/2025	13:21	LB137997
	Selenium	9.64	+/-10	U	20.0	P	11/20/2025	13:21	LB137997
	Silver	1.62	+/-5	U	10.0	P	11/20/2025	13:21	LB137997

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	11/20/2025	14:01	LB137997
	Barium	14.6	+/-50	U	100	P	11/20/2025	14:01	LB137997
	Cadmium	0.50	+/-3	U	6.00	P	11/20/2025	14:01	LB137997
	Chromium	2.12	+/-5	U	10.0	P	11/20/2025	14:01	LB137997
	Lead	2.30	+/-6	U	12.0	P	11/20/2025	14:01	LB137997
	Selenium	9.64	+/-10	U	20.0	P	11/20/2025	14:01	LB137997
	Silver	1.62	+/-5	U	10.0	P	11/20/2025	14:01	LB137997
CCB02	Arsenic	5.12	+/-10	U	20.0	P	11/20/2025	15:46	LB137997
	Barium	14.6	+/-50	U	100	P	11/20/2025	15:46	LB137997
	Cadmium	0.50	+/-3	U	6.00	P	11/20/2025	15:46	LB137997
	Chromium	2.12	+/-5	U	10.0	P	11/20/2025	15:46	LB137997
	Lead	2.30	+/-6	U	12.0	P	11/20/2025	15:46	LB137997
	Selenium	9.64	+/-10	U	20.0	P	11/20/2025	15:46	LB137997
	Silver	1.62	+/-5	U	10.0	P	11/20/2025	15:46	LB137997

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170544TB		**WATER**		**Batch Number:**	**PB170585**		**Prep Date:**	**11/17/2025**	
	Mercury	0.76	<2	U	2.00	CV	11/17/2025	16:04	LB137920
Sample ID	**Analyte**	**Result (ug/L)**	**Acceptance Limit**	**Conc Qual**	**CRQL ug/L**	**M**	**Analysis Date**	**Analysis Time**	**Run**
PB170585BL		**WATER**		**Batch Number:**	**PB170585**		**Prep Date:**	**11/17/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	11/17/2025	15:33	LB137920

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170544TB		**WATER**		**Batch Number:**	**PB170583**		**Prep Date:**	**11/17/2025**	
	Arsenic	25.6	<50	U	100	P	11/20/2025	14:05	LB137997
	Barium	72.8	<250	U	500	P	11/20/2025	14:05	LB137997
	Cadmium	2.50	<15	U	30.0	P	11/20/2025	14:05	LB137997
	Chromium	23.5	<25	J	50.0	P	11/20/2025	14:05	LB137997
	Lead	11.5	<30	U	60.0	P	11/20/2025	14:05	LB137997
	Selenium	48.2	<50	U	100	P	11/20/2025	14:05	LB137997
	Silver	8.10	<25	U	50.0	P	11/20/2025	14:05	LB137997

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170583BL		**WATER**		**Batch Number:**	**PB170583**		**Prep Date:**	**11/17/2025**	
	Arsenic	25.6	<50	U	100	P	11/17/2025	17:53	LB137929
	Barium	72.8	<250	U	500	P	11/17/2025	17:53	LB137929
	Cadmium	2.50	<15	U	30.0	P	11/17/2025	17:53	LB137929
	Chromium	10.6	<25	U	50.0	P	11/17/2025	17:53	LB137929
	Lead	11.5	<30	U	60.0	P	11/17/2025	17:53	LB137929
	Selenium	48.2	<50	U	100	P	11/17/2025	17:53	LB137929
	Silver	8.10	<25	U	50.0	P	11/17/2025	17:53	LB137929

METAL CALIBRATION DATA

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

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
ICV118	Mercury	3.95	4.0	99	90 - 110	CV	11/17/2025	15:17	LB137920

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

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
CCV04	Mercury	5.02	5.0	100	90 - 110	CV	11/17/2025	15:21	LB137920
CCV05	Mercury	4.99	5.0	100	90 - 110	CV	11/17/2025	15:49	LB137920
CCV06	Mercury	4.98	5.0	100	90 - 110	CV	11/17/2025	16:11	LB137920

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.
SDG No.: Q3649
Contract: HDRI08
Lab Code: ACE
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	3890	4000	97	90 - 110	P	11/17/2025	13:23	LB137929
	Barium	7960	8000	99	90 - 110	P	11/17/2025	13:23	LB137929
	Cadmium	1940	2000	97	90 - 110	P	11/17/2025	13:23	LB137929
	Chromium	814	800	102	90 - 110	P	11/17/2025	13:23	LB137929
	Lead	3830	4000	96	90 - 110	P	11/17/2025	13:23	LB137929
	Selenium	3930	4000	98	90 - 110	P	11/17/2025	13:23	LB137929
	Silver	957	1000	96	90 - 110	P	11/17/2025	13:23	LB137929

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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	5010	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Barium	10100	10000	101	90 - 110	P	11/17/2025	13:57	LB137929
	Cadmium	2510	2500	100	90 - 110	P	11/17/2025	13:57	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	13:57	LB137929
	Lead	5020	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Selenium	5010	5000	100	90 - 110	P	11/17/2025	13:57	LB137929
	Silver	1260	1250	101	90 - 110	P	11/17/2025	13:57	LB137929
CCV02	Arsenic	5120	5000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Barium	10100	10000	101	90 - 110	P	11/17/2025	14:47	LB137929
	Cadmium	2540	2500	102	90 - 110	P	11/17/2025	14:47	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	14:47	LB137929
	Lead	5080	5000	102	90 - 110	P	11/17/2025	14:47	LB137929
	Selenium	5170	5000	103	90 - 110	P	11/17/2025	14:47	LB137929
	Silver	1280	1250	102	90 - 110	P	11/17/2025	14:47	LB137929
CCV03	Arsenic	4790	5000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Barium	9720	10000	97	90 - 110	P	11/17/2025	15:44	LB137929
	Cadmium	2370	2500	95	90 - 110	P	11/17/2025	15:44	LB137929
	Chromium	948	1000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Lead	4750	5000	95	90 - 110	P	11/17/2025	15:44	LB137929
	Selenium	4800	5000	96	90 - 110	P	11/17/2025	15:44	LB137929
	Silver	1190	1250	95	90 - 110	P	11/17/2025	15:44	LB137929
CCV04	Arsenic	5130	5000	103	90 - 110	P	11/17/2025	16:34	LB137929
	Barium	10000	10000	100	90 - 110	P	11/17/2025	16:34	LB137929
	Cadmium	2510	2500	101	90 - 110	P	11/17/2025	16:34	LB137929
	Chromium	1020	1000	102	90 - 110	P	11/17/2025	16:34	LB137929
	Lead	5030	5000	101	90 - 110	P	11/17/2025	16:34	LB137929
	Selenium	5160	5000	103	90 - 110	P	11/17/2025	16:34	LB137929
	Silver	1280	1250	103	90 - 110	P	11/17/2025	16:34	LB137929
CCV05	Arsenic	5130	5000	102	90 - 110	P	11/17/2025	17:24	LB137929
	Barium	9840	10000	98	90 - 110	P	11/17/2025	17:24	LB137929
	Cadmium	2530	2500	101	90 - 110	P	11/17/2025	17:24	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	17:24	LB137929
	Lead	5020	5000	100	90 - 110	P	11/17/2025	17:24	LB137929
	Selenium	5110	5000	102	90 - 110	P	11/17/2025	17:24	LB137929

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

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
CCV05	Silver	1260	1250	101	90 - 110	P	11/17/2025	17:24	LB137929
CCV06	Arsenic	5010	5000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Barium	9690	10000	97	90 - 110	P	11/17/2025	18:15	LB137929
	Cadmium	2450	2500	98	90 - 110	P	11/17/2025	18:15	LB137929
	Chromium	1000	1000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Lead	4890	5000	98	90 - 110	P	11/17/2025	18:15	LB137929
	Selenium	5020	5000	100	90 - 110	P	11/17/2025	18:15	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	18:15	LB137929
CCV07	Arsenic	4980	5000	100	90 - 110	P	11/17/2025	19:07	LB137929
	Barium	9940	10000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Cadmium	2410	2500	96	90 - 110	P	11/17/2025	19:07	LB137929
	Chromium	987	1000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Lead	4790	5000	96	90 - 110	P	11/17/2025	19:07	LB137929
	Selenium	4970	5000	99	90 - 110	P	11/17/2025	19:07	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	19:07	LB137929
CCV08	Arsenic	5170	5000	104	90 - 110	P	11/17/2025	19:24	LB137929
	Barium	10200	10000	102	90 - 110	P	11/17/2025	19:24	LB137929
	Cadmium	2510	2500	100	90 - 110	P	11/17/2025	19:24	LB137929
	Chromium	1030	1000	103	90 - 110	P	11/17/2025	19:24	LB137929
	Lead	4990	5000	100	90 - 110	P	11/17/2025	19:24	LB137929
	Selenium	5180	5000	104	90 - 110	P	11/17/2025	19:24	LB137929
	Silver	1290	1250	103	90 - 110	P	11/17/2025	19:24	LB137929
CCV09	Arsenic	5220	5000	104	90 - 110	P	11/17/2025	19:47	LB137929
	Barium	9950	10000	100	90 - 110	P	11/17/2025	19:47	LB137929
	Cadmium	2430	2500	97	90 - 110	P	11/17/2025	19:47	LB137929
	Chromium	990	1000	99	90 - 110	P	11/17/2025	19:47	LB137929
	Lead	4900	5000	98	90 - 110	P	11/17/2025	19:47	LB137929
	Selenium	5220	5000	104	90 - 110	P	11/17/2025	19:47	LB137929
	Silver	1250	1250	100	90 - 110	P	11/17/2025	19:47	LB137929

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

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
LLCCV	Arsenic	20.5	20.0	103	80 - 120	P	11/17/2025	19:57	LB137929
	Barium	102	100	102	80 - 120	P	11/17/2025	19:57	LB137929
	Cadmium	6.08	6.0	101	80 - 120	P	11/17/2025	19:57	LB137929
	Chromium	10.4	10.0	104	80 - 120	P	11/17/2025	19:57	LB137929
	Lead	14.3	12.0	119	80 - 120	P	11/17/2025	19:57	LB137929
	Selenium	19.2	20.0	96	80 - 120	P	11/17/2025	19:57	LB137929
	Silver	11.9	10.0	119	80 - 120	P	11/17/2025	19:57	LB137929

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.
SDG No.: Q3649
Contract: HDRI08
Lab Code: ACE
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	3890	4000	97	90 - 110	P	11/20/2025	13:12	LB137997
	Barium	7800	8000	98	90 - 110	P	11/20/2025	13:12	LB137997
	Cadmium	1930	2000	96	90 - 110	P	11/20/2025	13:12	LB137997
	Chromium	807	800	101	90 - 110	P	11/20/2025	13:12	LB137997
	Lead	3840	4000	96	90 - 110	P	11/20/2025	13:12	LB137997
	Selenium	3910	4000	98	90 - 110	P	11/20/2025	13:12	LB137997
	Silver	1050	1000	105	90 - 110	P	11/20/2025	13:12	LB137997

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc.

SDG No.: Q3649

Contract: HDRI08

Lab Code: ACE

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	20.1	20.0	100	80 - 120	P	11/20/2025	13:17	LB137997
	Barium	102	100	102	80 - 120	P	11/20/2025	13:17	LB137997
	Cadmium	5.90	6.0	98	80 - 120	P	11/20/2025	13:17	LB137997
	Chromium	10.0	10.0	100	80 - 120	P	11/20/2025	13:17	LB137997
	Lead	11.0	12.0	92	80 - 120	P	11/20/2025	13:17	LB137997
	Selenium	17.1	20.0	86	80 - 120	P	11/20/2025	13:17	LB137997
	Silver	10.3	10.0	103	80 - 120	P	11/20/2025	13:17	LB137997

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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	4730	5000	94	90 - 110	P	11/20/2025	13:56	LB137997
	Barium	9580	10000	96	90 - 110	P	11/20/2025	13:56	LB137997
	Cadmium	2340	2500	94	90 - 110	P	11/20/2025	13:56	LB137997
	Chromium	954	1000	95	90 - 110	P	11/20/2025	13:56	LB137997
	Lead	4710	5000	94	90 - 110	P	11/20/2025	13:56	LB137997
	Selenium	4710	5000	94	90 - 110	P	11/20/2025	13:56	LB137997
	Silver	1190	1250	95	90 - 110	P	11/20/2025	13:56	LB137997
CCV02	Arsenic	5290	5000	106	90 - 110	P	11/20/2025	15:42	LB137997
	Barium	10300	10000	103	90 - 110	P	11/20/2025	15:42	LB137997
	Cadmium	2570	2500	103	90 - 110	P	11/20/2025	15:42	LB137997
	Chromium	1080	1000	108	90 - 110	P	11/20/2025	15:42	LB137997
	Lead	5180	5000	104	90 - 110	P	11/20/2025	15:42	LB137997
	Selenium	5320	5000	106	90 - 110	P	11/20/2025	15:42	LB137997
	Silver	1340	1250	108	90 - 110	P	11/20/2025	15:42	LB137997

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Metals

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CRDL STANDARD FOR AA & ICP

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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	20.5	20.0	102	65 - 135	P	11/17/2025	13:35	LB137929
	Barium	104	100	104	65 - 135	P	11/17/2025	13:35	LB137929
	Cadmium	6.08	6.0	101	65 - 135	P	11/17/2025	13:35	LB137929
	Chromium	10.4	10.0	104	65 - 135	P	11/17/2025	13:35	LB137929
	Lead	12.4	12.0	103	65 - 135	P	11/17/2025	13:35	LB137929
	Selenium	22.9	20.0	115	65 - 135	P	11/17/2025	13:35	LB137929
	Silver	10.6	10.0	106	65 - 135	P	11/17/2025	13:35	LB137929
CRA	Mercury	0.16	0.2	82	70 - 130	CV	11/17/2025	15:26	LB137920
CRI01	Arsenic	20.8	20.0	104	65 - 135	P	11/20/2025	13:26	LB137997
	Barium	98.7	100	99	65 - 135	P	11/20/2025	13:26	LB137997
	Cadmium	5.95	6.0	99	65 - 135	P	11/20/2025	13:26	LB137997
	Chromium	10.1	10.0	101	65 - 135	P	11/20/2025	13:26	LB137997
	Lead	11.7	12.0	98	65 - 135	P	11/20/2025	13:26	LB137997
	Selenium	21.8	20.0	109	65 - 135	P	11/20/2025	13:26	LB137997
	Silver	11.0	10.0	110	65 - 135	P	11/20/2025	13:26	LB137997

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Metals
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INTERFERENCE CHECK SAMPLE

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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	11.0			-20	20	11/17/2025	13:40	LB137929
	Barium	6.13	6.0	102	-94	106	11/17/2025	13:40	LB137929
	Cadmium	5.85	1.0	585	-5	7	11/17/2025	13:40	LB137929
	Chromium	51.1	52.0	98	42	62	11/17/2025	13:40	LB137929
	Lead	9.64			-12	12	11/17/2025	13:40	LB137929
	Selenium	8.91			-20	20	11/17/2025	13:40	LB137929
	Silver	-3.73			-10	10	11/17/2025	13:40	LB137929
ICSAB01	Arsenic	116	104	112	88.4	120	11/17/2025	13:44	LB137929
	Barium	494	537	92	437	637	11/17/2025	13:44	LB137929
	Cadmium	994	972	102	826	1120	11/17/2025	13:44	LB137929
	Chromium	565	542	104	460	624	11/17/2025	13:44	LB137929
	Lead	58.0	49.0	118	37	61	11/17/2025	13:44	LB137929
	Selenium	58.2	46.0	126	26	66	11/17/2025	13:44	LB137929
	Silver	194	201	96	170	232	11/17/2025	13:44	LB137929
ICSA01	Arsenic	9.50			-20	20	11/20/2025	13:39	LB137997
	Barium	3.36	6.0	56	-94	106	11/20/2025	13:39	LB137997
	Cadmium	-1.55	1.0	155	-5	7	11/20/2025	13:39	LB137997
	Chromium	50.8	52.0	98	42	62	11/20/2025	13:39	LB137997
	Lead	-1.75			-12	12	11/20/2025	13:39	LB137997
	Selenium	-1.81			-20	20	11/20/2025	13:39	LB137997
	Silver	-7.55			-10	10	11/20/2025	13:39	LB137997
ICSAB01	Arsenic	112	104	108	88.4	120	11/20/2025	13:44	LB137997
	Barium	469	537	87	437	637	11/20/2025	13:44	LB137997
	Cadmium	990	972	102	826	1120	11/20/2025	13:44	LB137997
	Chromium	547	542	101	460	624	11/20/2025	13:44	LB137997
	Lead	48.7	49.0	99	37	61	11/20/2025	13:44	LB137997
	Selenium	54.7	46.0	119	26	66	11/20/2025	13:44	LB137997
	Silver	186	201	92	170	232	11/20/2025	13:44	LB137997

METAL QC DATA

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MATRIX SPIKE SUMMARY

client: HDR, Inc. **level:** low **sdg no.:** Q3649

contract: HDRI08 **lab code:** ACE

matrix: Water **sample id:** Q3649-07 **client id:** B4-0.0-0.5-20251114MS

Percent Solids for Sample: NA **Spiked ID:** Q3649-07MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3990		100	U	4000	100		P
Barium	ug/L	75 - 125	2120		1070		1000	104		P
Cadmium	ug/L	75 - 125	948		30.0	U	1000	95		P
Chromium	ug/L	75 - 125	2170		43.9	J	2000	106		P
Lead	ug/L	75 - 125	4550		60.0	U	5000	91		P
Mercury	ug/L	75 - 125	38.3		2.00	U	40.0	96		CV
Selenium	ug/L	75 - 125	9750		100	U	10000	98		P
Silver	ug/L	75 - 125	374		50.0	U	380	98		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: HDR, Inc. **level:** low **sdg no.:** Q3649

contract: HDRI08 **lab code:** ACE

matrix: Water **sample id:** Q3649-07 **client id:** B4-0.0-0.5-20251114MSD

Percent Solids for Sample: NA **Spiked ID:** Q3649-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3900		100	U	4000	98		P
Barium	ug/L	75 - 125	2230		1070		1000	115		P
Cadmium	ug/L	75 - 125	939		30.0	U	1000	94		P
Chromium	ug/L	75 - 125	2220		43.9	J	2000	109		P
Lead	ug/L	75 - 125	4500		60.0	U	5000	90		P
Mercury	ug/L	75 - 125	37.4		2.00	U	40.0	94		CV
Selenium	ug/L	75 - 125	9570		100	U	10000	96		P
Silver	ug/L	75 - 125	370		50.0	U	380	97		P

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Metals
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Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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

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DUPLICATE SAMPLE SUMMARY

Client: HDR, Inc. **Level:** LOW **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3649-07 **Client ID:** B4-0.0-0.5-20251114DUP

Percent Solids for Sample: NA **Duplicate ID** Q3649-07DUP **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	1070		1080		1		P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	43.9	J	43.5	J	1		P
Lead	ug/L	20	60.0	U	60.0	U			P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: HDR, Inc. **Level:** LOW **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3649-07MS **Client ID:** B4-0.0-0.5-20251114MSD

Percent Solids for Sample: NA **Duplicate ID** Q3649-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3990		3900		2		P
Barium	ug/L	20	2120		2230		5		P
Cadmium	ug/L	20	948		939		1		P
Chromium	ug/L	20	2170		2220		2		P
Lead	ug/L	20	4550		4500		1		P
Mercury	ug/L	20	38.3		37.4		2		CV
Selenium	ug/L	20	9750		9570		2		P
Silver	ug/L	20	374		370		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170583BS							
Arsenic	ug/L	4000	3900		98	80 - 120	P
Barium	ug/L	1000	1010		101	80 - 120	P
Cadmium	ug/L	1000	961		96	80 - 120	P
Chromium	ug/L	2000	2000		100	80 - 120	P
Lead	ug/L	5000	4680		94	80 - 120	P
Selenium	ug/L	10000	9790		98	80 - 120	P
Silver	ug/L	380	381		100	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170585BS							
Mercury	ug/L	4.0	3.76		94	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

B4-0.0-0.5-20251114L

Lab Name: Alliance **Contract:** HDRI08

Lab Code: ACE **Lb No.:** lb137929 **Lab Sample ID :** Q3649-07L **SDG No.:** Q3649

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1070		1050	J	2		P
Cadmium	30.0	U	150	U			P
Chromium	43.9	J	250	U	100.0		P
Lead	60.0	U	300	U			P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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ANALYSIS RUN LOG

Client: HDR, Inc. **Contract:** HDRI08

Lab code: ACE **Sdg no.:** Q3649

Instrument id number: **Method:** **Run number:** LB137920

Start date: 11/17/2025 **End date:** 11/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1441	HG
S0.2	S0.2	1	1446	HG
S2.5	S2.5	1	1449	HG
S5	S5	1	1451	HG
S7.5	S7.5	1	1453	HG
S10	S10	1	1511	HG
ICV118	ICV118	1	1517	HG
ICB118	ICB118	1	1519	HG
CCV04	CCV04	1	1521	HG
CCB04	CCB04	1	1523	HG
CRA	CRA	1	1526	HG
PB170585BL	PB170585BL	1	1533	HG
PB170585BS	PB170585BS	1	1535	HG
CCV05	CCV05	1	1549	HG
CCB05	CCB05	1	1551	HG
Q3649-07	B4-0.0-0.5-20251114	1	1555	HG
Q3649-07DUP	B4-0.0-0.5-20251114DUP	1	1558	HG
Q3649-07MS	B4-0.0-0.5-20251114MS	1	1600	HG
Q3649-07MSD	B4-0.0-0.5-20251114MSD	1	1602	HG
PB170544TB	PB170544TB	1	1604	HG
Q3649-07L	B4-0.0-0.5-20251114L	5	1607	HG
CCV06	CCV06	1	1611	HG
CCB06	CCB06	1	1614	HG

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metals
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ANALYSIS RUN LOG

Client: HDR, Inc. **Contract:** HDRI08

Lab code: ACE **Sdg no.:** Q3649

Instrument id number: **Method:** **Run number:** LB137929

Start date: 11/17/2025 **End date:** 11/17/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1257	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1302	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1306	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1310	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1314	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1319	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1323	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1331	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1335	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1340	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1357	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1447	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1451	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1544	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1548	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1634	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1724	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1728	Ag,As,Ba,Cd,Cr,Pb,Se
PB170583BL	PB170583BL	1	1753	Ag,As,Ba,Cd,Cr,Pb,Se
PB170583BS	PB170583BS	1	1757	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1815	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1819	Ag,As,Ba,Cd,Cr,Pb,Se
Q3649-07	B4-0.0-0.5-20251114	1	1850	Ag,As,Ba,Cd,Cr,Pb,Se
Q3649-07DUP	B4-0.0-0.5-20251114DUP	1	1854	Ag,As,Ba,Cd,Cr,Pb,Se
Q3649-07L	B4-0.0-0.5-20251114L	5	1859	Ag,As,Ba,Cd,Cr,Pb,Se
Q3649-07MS	B4-0.0-0.5-20251114MS	1	1903	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1907	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1911	Ag,As,Ba,Cd,Cr,Pb,Se
Q3649-07MSD	B4-0.0-0.5-20251114MSD	1	1916	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1924	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1947	Ag,As,Ba,Cd,Cr,Pb,Se
LLCCV	LLCCV	1	1957	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2002	Ag,As,Ba,Cd,Cr,Pb,Se

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metals
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ANALYSIS RUN LOG

Client: HDR, Inc. **Contract:** HDRI08

Lab code: ACE **Sdg no.:** Q3649

Instrument id number: **Method:** **Run number:** LB137997

Start date: 11/20/2025 **End date:** 11/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1247	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1251	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1255	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1300	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1304	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1308	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1312	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1321	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1339	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1344	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
PB170544TB	PB170544TB	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1542	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1546	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0003170	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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement 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
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE

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
Lead	220.353	0.0000000	-0.0003610	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

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LAB CHRONICLE

OrderID:	Q3649	**OrderDate:**	11/14/2025 3:02:13 PM
Client:	HDR, Inc.	**Project:**	PVWC Linear Construction
Contact:	Andrew Wadden	**Location:**	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3649-01	**B5-0.0-0.5-20251114**	**SOIL**			**11/14/25**			**11/14/25**
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-03	**DUPE-0.0-0.5-20251114**	**SOIL**			**11/14/25**			**11/14/25**
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-06	**B4-0.0-0.5-20251114**	**SOIL**			**11/14/25**			**11/14/25**
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	
Q3649-07	**B4-0.0-0.5-20251114**	**TCLP**			**11/14/25**			**11/14/25**
			TCLP ICP Metals	6010D		11/17/25	11/17/25	
			TCLP Mercury	7470A		11/17/25	11/17/25	
Q3649-08	**B3-0.0-0.5-20251114**	**SOIL**			**11/14/25**			**11/14/25**
			Mercury	7471B		11/17/25	11/18/25	
			Metals ICP-TAL	6010D		11/17/25	11/17/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB170583**						
PB170544TB	PB170544TB	MB	WATER	11/17/2025	5.0	25.0	
PB170583BL	PB170583BL	MB	WATER	11/17/2025	5.0	25.0	
PB170583BS	PB170583BS	LCS	WATER	11/17/2025	5.0	25.0	
Q3649-07	B4-0.0-0.5-20251114	SAM	WATER	11/17/2025	5.0	25.0	
Q3649-07DUP	B4-0.0-0.5-20251114DUP	DUP	WATER	11/17/2025	5.0	25.0	
Q3649-07MS	B4-0.0-0.5-20251114MS	MS	WATER	11/17/2025	5.0	25.0	
Q3649-07MSD	B4-0.0-0.5-20251114MSD	MSD	WATER	11/17/2025	5.0	25.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: HDR, Inc. **SDG No.:** Q3649

Contract: HDRI08 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB170585**						
PB170544TB	PB170544TB	MB	WATER	11/17/2025	3.0	30.0	
PB170585BL	PB170585BL	MB	WATER	11/17/2025	30.0	30.0	
PB170585BS	PB170585BS	LCS	WATER	11/17/2025	30.0	30.0	
Q3649-07	B4-0.0-0.5-20251114	SAM	WATER	11/17/2025	3.0	30.0	
Q3649-07DUP	B4-0.0-0.5-20251114DUP	DUP	WATER	11/17/2025	3.0	30.0	
Q3649-07MS	B4-0.0-0.5-20251114MS	MS	WATER	11/17/2025	3.0	30.0	
Q3649-07MSD	B4-0.0-0.5-20251114MSD	MSD	WATER	11/17/2025	3.0	30.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137920

Review By	mohan	Review On	11/18/2025 8:39:29 AM
Supervise By	jaswal	Supervise On	11/18/2025 11:56:29 AM

STD. NAME	STD REF.#
ICAL Standard	MP87982,MP87983,MP87984,MP87985,MP87986,MP87987
ICV Standard	MP87988
CCV Standard	MP87990
ICSA Standard	
CRI Standard	MP87992
LCS Standard	
Chk Standard	MP87989,MP87991,MP87993,MP87995

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/17/25 14:41		mohan	OK
2	S0.2	S0.2	CAL2	11/17/25 14:46		mohan	OK
3	S2.5	S2.5	CAL3	11/17/25 14:49		mohan	OK
4	S5	S5	CAL4	11/17/25 14:51		mohan	OK
5	S7.5	S7.5	CAL5	11/17/25 14:53		mohan	OK
6	S10	S10	CAL6	11/17/25 15:11		mohan	OK
7	ICV118	ICV118	ICV	11/17/25 15:17		mohan	OK
8	ICB118	ICB118	ICB	11/17/25 15:19		mohan	OK
9	CCV04	CCV04	CCV	11/17/25 15:21		mohan	OK
10	CCB04	CCB04	CCB	11/17/25 15:23		mohan	OK
11	CRA	CRA	CRDL	11/17/25 15:26		mohan	OK
12	HighStd	HighStd	HIGH STD	11/17/25 15:28		mohan	OK
13	ChkStd	ChkStd	SAM	11/17/25 15:30		mohan	OK
14	PB170585BL	PB170585BL	MB	11/17/25 15:33		mohan	OK
15	PB170585BS	PB170585BS	LCS	11/17/25 15:35		mohan	OK
16	Q3628-04	TP-5	SAM	11/17/25 15:37		mohan	OK
17	Q3638-02	MOO-25-0327	SAM	11/17/25 15:40		mohan	OK
18	Q3638-04	MOO-25-0328	SAM	11/17/25 15:42		mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137920

Review By	mohan	Review On	11/18/2025 8:39:29 AM
Supervise By	jaswal	Supervise On	11/18/2025 11:56:29 AM

STD. NAME	STD REF.#
ICAL Standard	MP87982,MP87983,MP87984,MP87985,MP87986,MP87987
ICV Standard	MP87988
CCV Standard	MP87990
ICSA Standard	
CRI Standard	MP87992
LCS Standard	
Chk Standard	MP87989,MP87991,MP87993,MP87995

19	Q3640-02	LAW-25-0179-0180	SAM	11/17/25 15:44		mohan	OK
20	Q3640-03	LAW-25-0182	SAM	11/17/25 15:46		mohan	OK
21	CCV05	CCV05	CCV	11/17/25 15:49		mohan	OK
22	CCB05	CCB05	CCB	11/17/25 15:51		mohan	OK
23	Q3647-02	VNJ-212	SAM	11/17/25 15:53		mohan	OK
24	Q3649-07	B4-0.0-0.5-20251114	SAM	11/17/25 15:55		mohan	OK
25	Q3649-07DUP	B4-0.0-0.5-20251114D	DUP	11/17/25 15:58		mohan	OK
26	Q3649-07MS	B4-0.0-0.5-20251114M	MS	11/17/25 16:00		mohan	OK
27	Q3649-07MSD	B4-0.0-0.5-20251114M	MSD	11/17/25 16:02		mohan	OK
28	PB170544TB	PB170544TB	MB	11/17/25 16:04		mohan	OK
29	Q3649-07L	B4-0.0-0.5-20251114L	SD	11/17/25 16:07		mohan	OK
30	Q3649-07A	B4-0.0-0.5-20251114A	PS	11/17/25 16:09		mohan	OK
31	CCV06	CCV06	CCV	11/17/25 16:11		mohan	OK
32	CCB06	CCB06	CCB	11/17/25 16:14		mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/17/25 12:57		Jaswal	OK
2	S1	S1	CAL2	11/17/25 13:02		Jaswal	OK
3	S2	S2	CAL3	11/17/25 13:06		Jaswal	OK
4	S3	S3	CAL4	11/17/25 13:10		Jaswal	OK
5	S4	S4	CAL5	11/17/25 13:14		Jaswal	OK
6	S5	S5	CAL6	11/17/25 13:19		Jaswal	OK
7	ICV01	ICV01	ICV	11/17/25 13:23		Jaswal	OK
8	ICB01	ICB01	ICB	11/17/25 13:31		Jaswal	OK
9	CRI01	CRI01	CRDL	11/17/25 13:35		Jaswal	OK
10	ICSA01	ICSA01	ICSA	11/17/25 13:40		Jaswal	OK
11	ICSAB01	ICSAB01	ICSAB	11/17/25 13:44		Jaswal	OK
12	ICSADL	ICSADL	ICSA	11/17/25 13:48		Jaswal	OK
13	ICSABDL	ICSABDL	ICSAB	11/17/25 13:52		Jaswal	OK
14	CCV01	CCV01	CCV	11/17/25 13:57		Jaswal	OK
15	CCB01	CCB01	CCB	11/17/25 14:01		Jaswal	OK
16	PB170459BL	PB170459BL	MB	11/17/25 14:05		Jaswal	OK
17	PB170459BS	PB170459BS	LCS	11/17/25 14:10		Jaswal	OK
18	PB170471BL	PB170471BL	MB	11/17/25 14:14		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

19	PB170471BS	PB170471BS	LCS	11/17/25 14:18		Jaswal	OK
20	PB170557BL	PB170557BL	MB	11/17/25 14:22		Jaswal	OK
21	PB170557BS	PB170557BS	LCS	11/17/25 14:26		Jaswal	OK
22	PB170558BL	PB170558BL	MB	11/17/25 14:30		Jaswal	OK
23	PB170558BS	PB170558BS	LCS	11/17/25 14:35		Jaswal	OK
24	Q3628-01	TP-5	SAM	11/17/25 14:39		Jaswal	OK
25	Q3631-01	VNJ-202	SAM	11/17/25 14:43		Jaswal	OK
26	CCV02	CCV02	CCV	11/17/25 14:47		Jaswal	OK
27	CCB02	CCB02	CCB	11/17/25 14:51		Jaswal	OK
28	LR-1	LR-1	HIGH STD	11/17/25 14:55		Jaswal	OK
29	LR-2	LR-2	HIGH STD	11/17/25 15:00		Jaswal	OK
30	Q3631-03	VNJ-208	SAM	11/17/25 15:11		Jaswal	OK
31	LR-3	LR-3	HIGH STD	11/17/25 15:15		Jaswal	OK
32	Q3633-01	ETGI-369	SAM	11/17/25 15:19		Jaswal	OK
33	Q3633-03	ETGI-342	SAM	11/17/25 15:24		Jaswal	OK
34	Q3633-05	ETGI-368	SAM	11/17/25 15:28		Jaswal	OK
35	Q3633-05DUP	ETGI-368DUP	DUP	11/17/25 15:32		Jaswal	OK
36	Q3633-05L	ETGI-368L	SD	11/17/25 15:36		Jaswal	OK
37	Q3633-05MS	ETGI-368MS	MS	11/17/25 15:40		Jaswal	OK
38	CCV03	CCV03	CCV	11/17/25 15:44		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

39	CCB03	CCB03	CCB	11/17/25 15:48		Jaswal	OK
40	Q3633-05MSD	ETGI-368MSD	MSD	11/17/25 15:52		Jaswal	OK
41	Q3633-05A	ETGI-368A	PS	11/17/25 15:56	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
42	Q3641-01	TR-05-111325	SAM	11/17/25 16:00		Jaswal	OK
43	Q3630-01	DSN002	SAM	11/17/25 16:04		Jaswal	OK
44	Q3630-01DUP	DSN002DUP	DUP	11/17/25 16:09		Jaswal	OK
45	Q3630-01L	DSN002L	SD	11/17/25 16:13		Jaswal	OK
46	Q3630-01MS	DSN002MS	MS	11/17/25 16:17		Jaswal	OK
47	Q3630-01MSD	DSN002MSD	MSD	11/17/25 16:22		Jaswal	OK
48	Q3630-01A	DSN002A	PS	11/17/25 16:26	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
49	Q3630-05	DSN003	SAM	11/17/25 16:30		Jaswal	OK
50	CCV04	CCV04	CCV	11/17/25 16:34		Jaswal	OK
51	CCB04	CCB04	CCB	11/17/25 16:38		Jaswal	OK
52	PB170579BL	PB170579BL	MB	11/17/25 16:43		Jaswal	OK
53	PB170579BS	PB170579BS	LCS	11/17/25 16:47		Jaswal	OK
54	Q3645-01	HD-02-11142025	SAM	11/17/25 16:51		Jaswal	OK
55	Q3646-01	SU-03-11142025	SAM	11/17/25 16:55		Jaswal	OK
56	Q3647-01	VNJ-212	SAM	11/17/25 16:59		Jaswal	OK
57	Q3648-01	OR-02-111425	SAM	11/17/25 17:04		Jaswal	OK

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Fax : 908 789 8922

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

58	Q3649-01	B5-0.0-0.5-20251114	SAM	11/17/25 17:08		Jaswal	OK
59	Q3649-03	DUPE-0.0-0.5-202511	SAM	11/17/25 17:12		Jaswal	OK
60	Q3649-06	B4-0.0-0.5-20251114	SAM	11/17/25 17:16		Jaswal	OK
61	Q3649-06DUP	B4-0.0-0.5-20251114D	DUP	11/17/25 17:20		Jaswal	OK
62	CCV05	CCV05	CCV	11/17/25 17:24		Jaswal	OK
63	CCB05	CCB05	CCB	11/17/25 17:28		Jaswal	OK
64	Q3649-06L	B4-0.0-0.5-20251114L	SD	11/17/25 17:33		Jaswal	OK
65	Q3649-06MS	B4-0.0-0.5-20251114M	MS	11/17/25 17:37		Jaswal	OK
66	Q3649-06MSD	B4-0.0-0.5-20251114M	MSD	11/17/25 17:41		Jaswal	OK
67	Q3649-06A	B4-0.0-0.5-20251114A	PS	11/17/25 17:45	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
68	Q3649-08	B3-0.0-0.5-20251114	SAM	11/17/25 17:49		Jaswal	OK
69	PB170583BL	PB170583BL	MB	11/17/25 17:53		Jaswal	OK
70	PB170583BS	PB170583BS	LCS	11/17/25 17:57		Jaswal	OK
71	Q3486-11	TP6	SAM	11/17/25 18:06		Jaswal	OK
72	Q3588-07	TR-06-11072025	SAM	11/17/25 18:10		Jaswal	OK
73	CCV06	CCV06	CCV	11/17/25 18:15		Jaswal	OK
74	CCB06	CCB06	CCB	11/17/25 18:19		Jaswal	OK
75	Q3628-04	TP-5	SAM	11/17/25 18:23		Jaswal	OK
76	Q3638-02	MOO-25-0327	SAM	11/17/25 18:28		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137929

Review By	jaswal	Review On	11/18/2025 12:01:44 PM
Supervise By	mohan	Supervise On	11/18/2025 5:19:51 PM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

77	Q3638-04	MOO-25-0328	SAM	11/17/25 18:32		Jaswal	OK
78	Q3640-02	LAW-25-0179-0180	SAM	11/17/25 18:37		Jaswal	OK
79	Q3640-03	LAW-25-0182	SAM	11/17/25 18:41		Jaswal	OK
80	Q3647-02	VNJ-212	SAM	11/17/25 18:45		Jaswal	OK
81	Q3649-07	B4-0.0-0.5-20251114	SAM	11/17/25 18:50		Jaswal	OK
82	Q3649-07DUP	B4-0.0-0.5-20251114D	DUP	11/17/25 18:54		Jaswal	OK
83	Q3649-07L	B4-0.0-0.5-20251114L	SD	11/17/25 18:59		Jaswal	OK
84	Q3649-07MS	B4-0.0-0.5-20251114M	MS	11/17/25 19:03		Jaswal	OK
85	CCV07	CCV07	CCV	11/17/25 19:07		Jaswal	OK
86	CCB07	CCB07	CCB	11/17/25 19:11		Jaswal	OK
87	Q3649-07MSD	B4-0.0-0.5-20251114M	MSD	11/17/25 19:16		Jaswal	OK
88	Q3649-07A	B4-0.0-0.5-20251114A	PS	11/17/25 19:20	0.1ML M6008,M6017-10ML SAMPLE	Jaswal	OK
89	CCV08	CCV08	CCV	11/17/25 19:24		Jaswal	OK
90	CCB08	CCB08	CCB	11/17/25 19:28		Jaswal	OK
91	CCV09	CCV09	CCV	11/17/25 19:47		Jaswal	OK
92	LLCCV	LLCCV	LLCCV	11/17/25 19:57		Jaswal	OK
93	CCB09	CCB09	CCB	11/17/25 20:02		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137997

Review By	jaswal	Review On	11/25/2025 10:46:06 AM
Supervise By	mohan	Supervise On	11/25/2025 10:49:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	11/20/25 12:47		Jaswal	OK
2	S1	S1	CAL2	11/20/25 12:51		Jaswal	OK
3	S2	S2	CAL3	11/20/25 12:55		Jaswal	OK
4	S3	S3	CAL4	11/20/25 13:00		Jaswal	OK
5	S4	S4	CAL5	11/20/25 13:04		Jaswal	OK
6	S5	S5	CAL6	11/20/25 13:08		Jaswal	OK
7	ICV01	ICV01	ICV	11/20/25 13:12		Jaswal	OK
8	LLICV01	LLICV01	LLICV	11/20/25 13:17		Jaswal	OK
9	ICB01	ICB01	ICB	11/20/25 13:21		Jaswal	OK
10	CRI01	CRI01	CRDL	11/20/25 13:26		Jaswal	OK
11	ICSA01	ICSA01	ICSA	11/20/25 13:39		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	11/20/25 13:44		Jaswal	OK
13	ICSADL	ICSADL	ICSA	11/20/25 13:48		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	11/20/25 13:52		Jaswal	OK
15	CCV01	CCV01	CCV	11/20/25 13:56		Jaswal	OK
16	CCB01	CCB01	CCB	11/20/25 14:01		Jaswal	OK
17	PB170544TB	PB170544TB	MB	11/20/25 14:05		Jaswal	OK
18	PB170657BL	PB170657BL	MB	11/20/25 14:10		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB137997

Review By	jaswal	Review On	11/25/2025 10:46:06 AM
Supervise By	mohan	Supervise On	11/25/2025 10:49:02 AM

STD. NAME	STD REF.#
ICAL Standard	MP87637,MP87643,MP87641,MP87640,MP87639,MP87638
ICV Standard	MP87644,MP87643
CCV Standard	MP87647
ICSA Standard	MP87645,MP87646
CRI Standard	MP87643
LCS Standard	
Chk Standard	MP87668,MP87648,MP87651,MP87649,MP87650

19	PB170657BS	PB170657BS	LCS	11/20/25 14:14		Jaswal	OK
20	Q3671-01	Zeltmann Power Plant	SAM	11/20/25 15:07	Fe high, Ag Oversaturated.	Jaswal	Dilution
21	Q3671-01DL	Zeltmann Power Plant	SAM	11/20/25 15:11	5X for Fe and Ag	Jaswal	Confirms
22	Q3677-01	COMP-1	SAM	11/20/25 15:15	Not Use	Jaswal	Not Ok
23	Q3671-01DL2	Zeltmann Power Plant	SAM	11/20/25 15:20	Not Use	Jaswal	Not Ok
24	Q3671-01DL3	Zeltmann Power Plant	SAM	11/20/25 15:26	Not Use	Jaswal	Not Ok
25	CCV02	CCV02	CCV	11/20/25 15:42		Jaswal	OK
26	CCB02	CCB02	CCB	11/20/25 15:46		Jaswal	OK

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170583

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pippete ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #1 2. N/A

Start Digest Date: 11/17/2025 **Time :** 12:30 **Temp :** 96 °C

End Digest Date: 11/17/2025 **Time :** 15:32 **Temp :** 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SPS

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6209
LFS-2	0.25	M6201
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6187
1:1 HCL	5.00	MP87148
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK#1 CELL#50 96C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/17/25 16:32	Stagnetdio	metals lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB170583

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB170544TB	PB170544TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB170583BL	PBW583	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB170583BS	LCS583	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	3
Q3486-11	TP6	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
Q3588-07	TR-06-11072025	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
Q3628-04	TP-5	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
Q3638-02	MOO-25-0327	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
Q3638-04	MOO-25-0328	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
Q3640-02	LAW-25-0179-0180	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q3640-03	LAW-25-0182	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
Q3647-02	VNJ-212	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
Q3649-07	B4-0.0-0.5-20251114	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
Q3649-07MS	B4-0.0-0.5-20251114MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	14
Q3649-07MSD	B4-0.0-0.5-20251114MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6209,M6201	15
Q3649-07DUP	B4-0.0-0.5-20251114DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13

A B C D E F G H I J

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB170585

SOP ID : M7470A-Mercury-20

SDG No : NA

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/17/2025 **Time :** 10:35 **Temp :** 94 °C

End Digest Date: 11/17/2025 **Time :** 12:35 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP87988
CCV	30mL	MP87990
CRA	30mL	MP87992
Blank Spike	0.48mL	MP87981
Matrix Spike	0.48mL	MP87981

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP87633
KMnO4 (5%)	4.5mL	MP87634
K2S2O8 (5%)	2.4mL	MP87635
Hydroxylamine HCL (12%)	1.8mL	MP87636
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP87982
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP87983
2.5 ppb	S2.5	30mL	MP87984
5.0 ppb	S5.0	30mL	MP87985
7.5 ppb	S7.5	30mL	MP87986
10.0 ppb	S10.0	30mL	MP87987
ICV	ICV	30mL	MP87988
ICB	ICB	30mL	MP87989
CCV	CCV	30mL	MP87990
CCB	CCB	30mL	MP87991
CRI	CRI	30mL	MP87992
CHK STD	CHK STD	30mL	MP87993

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/17/25 @ 13:15	HG - DIG. Lab	HG - DIGEST Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB170585

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB170544TB	PB170544TB	3	30	<2	N/A	3-1
PB170585BL	PBW585	30	30	<2	N/A	2
PB170585BS	LCS585	30	30	<2	MP87981	3
Q3628-04	TP-5	3	30	<2	N/A	4
Q3638-02	MOO-25-0327	3	30	<2	N/A	5
Q3638-04	MOO-25-0328	3	30	<2	N/A	6
Q3640-02	LAW-25-0179-0180	3	30	<2	N/A	7
Q3640-03	LAW-25-0182	3	30	<2	N/A	8
Q3647-02	VNJ-212	3	30	<2	N/A	9
Q3649-07	B4-0.0-0.5-20251114	3	30	<2	N/A	10
Q3649-07DUP	B4-0.0-0.5-20251114DUP	3	30	<2	N/A	11
Q3649-07MS	B4-0.0-0.5-20251114MS	3	30	<2	MP87981	12
Q3649-07MSD	B4-0.0-0.5-20251114MSD	3	30	<2	MP87981	13

A B C D E F G H I J

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB170544

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1

TCLP Filter ID : 40819719

Start Prep Date : 11/14/2025 **Time :** 16:00

End Prep Date : 11/15/2025 **Time :** 10:25

Combination Ratio : 20

ZHE Cleaning Batch : N/A JP

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JZ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP114526
HCL-TCLP,1N	N/A	WP114527
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. q3649-07 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11-17-25 10:00	JP / Extraction	S123. RS / Extr
	Preparation Group	Analysis Group Metals Dig.

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB170544

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB170544TB	LEB544	10	N/A	2000	N/A	N/A	N/A	4.95	1.5	T-1
Q3486-11	TP6	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q3588-07	TR-06-11072025	02	100.03	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q3628-04	TP-5	03	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q3638-02	MOO-25-0327	04	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q3638-04	MOO-25-0328	05	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q3640-02	LAW-25-0179-0180	06	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q3640-03	LAW-25-0182	07	100.04	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q3647-02	VNJ-212	08	100.02	2000	N/A	N/A	N/A	11.0	1.5	T-1
Q3649-07	B4-0.0-0.5-20251114	09	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB170544TB	LEB544	N/A	N/A	N/A	N/A	N/A	N/A
Q3486-11	TP6	N/A	N/A	N/A	N/A	100	N/A
Q3588-07	TR-06-11072025	N/A	N/A	N/A	N/A	100	N/A
Q3628-04	TP-5	N/A	N/A	N/A	N/A	100	N/A
Q3638-02	MOO-25-0327	N/A	N/A	N/A	N/A	100	N/A
Q3638-04	MOO-25-0328	N/A	N/A	N/A	N/A	100	N/A
Q3640-02	LAW-25-0179-0180	N/A	N/A	N/A	N/A	100	N/A
Q3640-03	LAW-25-0182	N/A	N/A	N/A	N/A	100	N/A
Q3647-02	VNJ-212	N/A	N/A	N/A	N/A	100	N/A
Q3649-07	B4-0.0-0.5-20251114	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB170544

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB170544TB	LEB544	N/A	N/A	N/A	N/A	#1	4.95
Q3486-11	TP6	5.03	96.5	5.5	1.5	#1	4.95
Q3588-07	TR-06-11072025	5.03	96.5	7.6	2.5	#1	4.95
Q3628-04	TP-5	5.02	96.5	8.0	3.0	#1	4.95
Q3638-02	MOO-25-0327	5.02	96.5	7.6	2.5	#1	4.95
Q3638-04	MOO-25-0328	5.03	96.5	6.8	2.5	#1	4.95
Q3640-02	LAW-25-0179-0180	5.03	96.5	6.4	2.0	#1	4.95
Q3640-03	LAW-25-0182	5.04	96.5	6.6	2.0	#1	4.95
Q3647-02	VNJ-212	5.02	96.5	11.5	4.5	#1	4.95
Q3649-07	B4-0.0-0.5-20251114	5.02	96.5	7.6	3.0	#1	4.95