

## **DATA PACKAGE GENERAL CHEMISTRY**

**PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ**

**JACOBS ENGINEERING GROUP, INC.**

**412 Mt. Kemble Ave**

**Downtown Building**

**Morristown, NJ - 07960**

**Phone No: 9732670555**

**ORDER ID : P3467**

**ATTENTION : Mary I. Murphy**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** P3467

**Project ID :** Former Schlumberger Site Princeton NJ

**Client :** JACOBS Engineering Group, Inc.

**Lab Sample Number**

P3467-01  
P3467-02

**Client Sample Number**

919-J-WS-080224  
TB-03-080224

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

Signature :

*N. N. Pandya*

**APPROVED**

By Nimisha Pandya QA/QC Supervisor at 10:06 am, Aug 22, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

## **CASE NARRATIVE**

**JACOBS Engineering Group, Inc.**

**Project Name: Former Schlumberger Site Princeton NJ**

**Project # N/A**

**Chemtech Project # P3467**

**Test Name: Hexavalent Chromium**

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

2 Water samples were received on 08/02/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Hexavalent Chromium.

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

The analysis of Hexavalent Chromium was based on method 7196A.

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

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

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

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

Signature \_\_\_\_\_

N. N. Pandya

**APPROVED**

By Nimisha Pandya QA/QC Supervisor at 10:07 am, Aug 22, 2024

## DATA REPORTING QUALIFIERS- INORGANIC

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

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

**GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY**

CHEMTECH PROJECT NUMBER: P3467

MATRIX: Water

METHOD: 7196A

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
4. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

N. N. Pandya  
QA REVIEW

**APPROVED**

By Nimisha Pandya QA/QC Supervisor at 10:07 am, Aug 22, 2024

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3467

Completed

For thorough review, the report must have the following:

**GENERAL:**

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

**COVER PAGE:**

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

✓

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

✓

**CHAIN OF CUSTODY:**

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

**ANALYTICAL:**

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/06/2024

2nd Level QA Review Signature: \_\_\_\_\_

*N. N. Pandya*

**APPROVED**

By Nimisha Pandya QA/QC Supervisor at 10:07 am, Aug 22, 2024

Date:

LAB CHRONICLE

OrderID:	P3467	OrderDate:	8/2/2024 4:30:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3467-01	919-J-WS-080224	WATER	Hexavalent Chromium	7196A	08/02/24 13:25		08/03/24 08:44	08/02/24





# SAMPLE DATA

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## Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/02/24 13:25
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/02/24
Client Sample ID:	919-J-WS-080224	SDG No.:	P3467
Lab Sample ID:	P3467-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent Chromium	0.0030	U	1	0.0030	0.010	mg/L		08/03/24 08:44	7196A

Comments: \_\_\_\_\_

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



# QC RESULT SUMMARY

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## Initial and Continuing Calibration Verification

**Client:** JACOBS Engineering Group, Inc.  
**Project:** Former Schlumberger Site Princeton NJ

**SDG No.:** P3467  
**RunNo.:** LB131866

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: <b>ICV</b> Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	08/03/2024
Sample ID: <b>CCV1</b> Hexavalent Chromium	mg/L	0.498	0.5	100	90-110	08/03/2024
Sample ID: <b>CCV2</b> Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	08/03/2024

### Initial and Continuing Calibration Blank Summary

**Client:** JACOBS Engineering Group, Inc.  
**Project:** Former Schlumberger Site Princeton NJ

**SDG No.:** P3467  
**RunNo.:** LB131866

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: <b>ICB</b> Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/03/2024
Sample ID: <b>CCB1</b> Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/03/2024
Sample ID: <b>CCB2</b> Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/03/2024

## Preparation Blank Summary

**Client:** JACOBS Engineering Group, Inc.

**SDG No.:** P3467

**Project:** Former Schlumberger Site Princeton NJ

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
<b>Sample ID: Ib131866BL</b>							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.003	0.01	08/03/2024

## Matrix Spike Summary

<b>Client:</b>	JACOBS Engineering Group, Inc.	<b>SDG No.:</b>	P3467
<b>Project:</b>	Former Schlumberger Site Princeton NJ	<b>Sample ID:</b>	P3467-01
<b>Client ID:</b>	919-J-WS-080224MS	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.97		0.0030	U	1.0	2	97		08/03/2024

## Matrix Spike Summary

<b>Client:</b>	JACOBS Engineering Group, Inc.	<b>SDG No.:</b>	P3467
<b>Project:</b>	Former Schlumberger Site Princeton NJ	<b>Sample ID:</b>	P3467-01
<b>Client ID:</b>	919-J-WS-080224MSD	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/L	90-111	0.97		0.0030	U	1.0	2	97		08/03/2024



### Duplicate Sample Summary

<b>Client:</b>	JACOBS Engineering Group, Inc.	<b>SDG No.:</b>	P3467
<b>Project:</b>	Former Schlumberger Site Princeton NJ	<b>Sample ID:</b>	P3467-01
<b>Client ID:</b>	919-J-WS-080224DUP	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		08/03/2024

### Duplicate Sample Summary

<b>Client:</b>	JACOBS Engineering Group, Inc.	<b>SDG No.:</b>	P3467
<b>Project:</b>	Former Schlumberger Site Princeton NJ	<b>Sample ID:</b>	P3467-01
<b>Client ID:</b>	919-J-WS-080224MSD	<b>Percent Solids for Spike Sample:</b>	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifie	Duplicate Result	Conc. Qualifie	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/L	+/-20	0.97		0.97		2	0.82		08/03/2024

### Laboratory Control Sample Summary

<b>Client:</b>	JACOBS Engineering Group, Inc.	<b>SDG No.:</b>	P3467
<b>Project:</b>	Former Schlumberger Site Princeton NJ	<b>Run No.:</b>	LB131866

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	lb131866BS							
Hexavalent Chromium	mg/L	0.5	0.50		100	1	90-111	08/03/2024



# RAW DATA

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Analysis Method: 7196A

ANALYST: jignesh

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: Iwona

Run Number: LB131866

pH Meter ID: pH METER-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP109030
Calibration Std. hexchrome 0.05 ppm	WP109029
calibration std. hexchrome 0.01 ppm	WP109027
calibration std. hexchrome 0 ppm	WP109026
hexavalent chromium color reagent	WP108907
5N sulfuric acid	WP107791
Calibration Std Hexachrome 0.025 ppm	WP109028
Hexavalent Chromium ICV-LCS Std	WP109033
Calibration and CCV std HexChrome 0.5PPM	WP109031
Calibration std HexChrome 1.0PPM	WP109032

Intercept: -0.0007

Slope: 0.7845

Regression: 0.999997

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100		1.77	0.000	0.000	0.000	0.000		08/03/2024	08:30
2	CAL2	0.01	1	100	100		1.86	0.000	0.007	0.007	0.009	-10	08/03/2024	08:31
3	CAL3	0.025	1	100	100		1.84	0.000	0.018	0.018	0.023	-8	08/03/2024	08:32
4	CAL4	0.05	1	100	100		1.89	0.000	0.038	0.038	0.049	-2	08/03/2024	08:33
5	CAL5	0.1	1	100	100		1.86	0.000	0.079	0.079	0.101	1	08/03/2024	08:34
6	CAL6	0.5	1	100	100		1.90	0.000	0.391	0.391	0.499	-0.2	08/03/2024	08:35
7	CAL7	1	1	100	100		1.88	0.000	0.784	0.784	1.000	0	08/03/2024	08:36

Analysis Method: 7196A

ANALYST:jignesh

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB131866

pH Meter ID:pH METER-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100		1.93	0.000	0.390	0.390	0.498	08/03/2024	08:37
2	ICB		1	100	100		1.75	0.000	0.001	0.001	0.002	08/03/2024	08:38
3	CCV1	0.5	1	100	100		1.96	0.000	0.390	0.390	0.498	08/03/2024	08:39
4	CCB1		1	100	100		1.79	0.000	0.000	0.000	0.001	08/03/2024	08:40
5	RL Check	0.01	1	100	100		1.91	0.000	0.008	0.008	0.011	08/03/2024	08:41
6	lb131866BL		1	100	100		1.74	0.000	0.001	0.001	0.002	08/03/2024	08:42
7	lb131866BS	0.5	1	100	100		1.94	0.000	0.393	0.393	0.502	08/03/2024	08:43
8	P3467-01		1	100	100		2.04	0.000	0.000	0.000	0.001	08/03/2024	08:44
9	P3467-01DU		1	100	100		2.06	0.000	0.000	0.000	0.001	08/03/2024	08:45
10	P3467-01MS	1	2	100	100		2.02	0.000	0.378	0.378	0.483	08/03/2024	08:46
11	P3467-01MS	1	2	100	100		2.08	0.000	0.381	0.381	0.487	08/03/2024	08:47
12	CCV2	0.5	1	100	100		1.92	0.000	0.391	0.391	0.499	08/03/2024	08:48
13	CCB2		1	100	100		1.76	0.000	0.001	0.001	0.002	08/03/2024	08:49

WORKLIST(Hardcopy Internal Chain)

60131866

WorkList Name : hex-w 8-2      WorkList ID : 182359      Department : Wet-Chemistry      Date : 08-02-2024 17:45:11

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3467-01	919-J-WS-080224	Water	Hexavalent Chromium	Ammonium sulfate buffer	JACO05	D21	08/02/2024	7196A

Date/Time 08/02/2024 18:00  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

Date/Time 08/03/2024 09:00  
Raw Sample Received by: [Signature]  
Raw Sample Relinquished by: [Signature]

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Instrument ID: SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB131866**

Review By	jignesh	Review On	8/5/2024 2:00:06 PM
Supervise By	Iwona	Supervise On	8/6/2024 9:22:34 AM
SubDirectory	LB131866	Test	Hexavalent Chromium
<b>STD. NAME</b>	<b>STD REF.#</b>		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP109030,WP109029,WP109027,WP109026,WP108907,WP107791,WP109028,WP109033,WP109031,WP109032		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	08/03/24 08:30		jignesh	OK
2	CAL2	CAL2	CAL	08/03/24 08:31		jignesh	OK
3	CAL3	CAL3	CAL	08/03/24 08:32		jignesh	OK
4	CAL4	CAL4	CAL	08/03/24 08:33		jignesh	OK
5	CAL5	CAL5	CAL	08/03/24 08:34		jignesh	OK
6	CAL6	CAL6	CAL	08/03/24 08:35		jignesh	OK
7	CAL7	CAL7	CAL	08/03/24 08:36		jignesh	OK
8	ICV	ICV	ICV	08/03/24 08:37		jignesh	OK
9	ICB	ICB	ICB	08/03/24 08:38		jignesh	OK
10	CCV1	CCV1	CCV	08/03/24 08:39		jignesh	OK
11	CCB1	CCB1	CCB	08/03/24 08:40		jignesh	OK
12	RL Check	RL Check	SAM	08/03/24 08:41		jignesh	OK
13	Ib131866BL	Ib131866BL	MB	08/03/24 08:42		jignesh	OK
14	Ib131866BS	Ib131866BS	LCS	08/03/24 08:43		jignesh	OK
15	P3467-01	919-J-WS-080224	SAM	08/03/24 08:44		jignesh	OK
16	P3467-01DUP	919-J-WS-080224DUP	DUP	08/03/24 08:45		jignesh	OK
17	P3467-01MS	919-J-WS-080224MS	MS	08/03/24 08:46		jignesh	OK
18	P3467-01MSD	919-J-WS-080224MSD	MSD	08/03/24 08:47		jignesh	OK



Instrument ID: SPECTROPHOTOMETER-1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB131866**

Review By	jignesh	Review On	8/5/2024 2:00:06 PM
Supervise By	Iwona	Supervise On	8/6/2024 9:22:34 AM
SubDirectory	LB131866	Test	Hexavalent Chromium

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP109030,WP109029,WP109027,WP109026,WP108907,WP107791,WP109028,WP109033,WP109031,WP109032

19	CCV2	CCV2	CCV	08/03/24 08:48		jignesh	OK
20	CCB2	CCB2	CCB	08/03/24 08:49		jignesh	OK

## Prep Standard - Chemical Standard Summary

**Order ID :** P3467

**Test :** Hexavalent Chromium

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** LB131866,

**Standard ID :**

WP107791,WP108658,WP108659,WP108907,WP109025,WP109026,WP109027,WP109028,WP109029,WP109030,WP109031,WP109032,WP109033,

**Chemical ID :**

E3769,M5211,W2606,W2651,W2652,W2979,W3112,

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## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
126	5N sulfuric acid	<a href="#">WP107791</a>	05/07/2024	10/24/2024	Niha Farheen Shaik	None	None	Iwona Zarych
								05/07/2024

**FROM** 140.00000ml of M5211 + 860.00000ml of W2606 = Final Quantity: 1.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	<a href="#">WP108658</a>	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC	None	Iwona Zarych
						SC-5)		07/09/2024

**FROM** 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	<a href="#">WP108659</a>	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC	None	Iwona Zarych
<b>FROM</b> 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml SC-5)								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	<a href="#">WP108907</a>	07/30/2024	08/06/2024	Iwona Zarych	WETCHEM_SCALE_5 (WC	None	Mohan Bera
<b>FROM</b> 0.25000gram of W2979 + 50.00000ml of E3769 = Final Quantity: 50.000 ml SC-5)								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	<a href="#">WP109025</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 9.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 10.000 ml <div style="text-align: right;">(WC)</div>								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
110	calibration std. hexchrome 0 ppm	<a href="#">WP109026</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	None	Iwona Zarych 08/06/2024
<b>FROM</b> 100.00000ml of W3112 = Final Quantity: 100.000 ml								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
109	calibration std. hexchrome 0.01 ppm	<a href="#">WP109027</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.80000ml of W3112 + 0.20000ml of WP109025 = Final Quantity: 100.000 ml (WC)								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3800	Calibration Std Hexachrome 0.025 ppm	<a href="#">WP109028</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.50000ml of W3112 + 0.50000ml of WP109025 = Final Quantity: 100.000 ml (WC)								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
108	Calibration Std. hexchrome 0.05 ppm	<a href="#">WP109029</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.00000ml of W3112 + 1.00000ml of WP109025 = Final Quantity: 100.000 ml <div style="text-align: right;">(WC)</div>								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
107	Calibration Std. hexchrome 0.1 ppm	<a href="#">WP109030</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.80000ml of W3112 + 0.20000ml of WP108658 = Final Quantity: 100.000 ml <div style="text-align: right;">(WC)</div>								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3808	Calibration and CCV std HexChrome 0.5PPM	<a href="#">WP109031</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PIPETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 100.000 ml (WC)								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3809	Calibration std HexChrome 1.0PPM	<a href="#">WP109032</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PIPETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 98.00000ml of W3112 + 2.00000ml of WP108658 = Final Quantity: 100.000 ml (WC)								



## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3804	Hexavalent Chromium ICV-LCS Std	<a href="#">WP109033</a>	08/03/2024	08/04/2024	Jignesh Parikh	None	WETCHEM_PL PETTE_3	Iwona Zarych 08/06/2024
<b>FROM</b> 99.00000ml of W3112 + 1.00000ml of WP108659 = Final Quantity: 100.000 ml (WC)								

## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	01/12/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3769

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 / mohan	04/26/2022 / mohan	M5211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

**CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Product No.: 13450  
Product: Potassium dichromate, ACS, 99.0% min  
Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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**This document has been electronically generated and does not require a signature.**

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.



## Certificate of Analysis

1 Reagent Lane  
Fair Lawn, NJ 07410  
201.796.7100 tel  
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System  
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

*Jerusa Bailey-Wyche*

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.  
If there are any questions with this certificate, please call at (800) 227-6701.

\*Based on suggested storage condition.

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03  
Batch No.: 23H1462005  
Manufactured Date: 2023-07-26  
Expiration Date: 2026-07-25  
Revision No.: 0

## Certificate of Analysis

Test	Specification	Result
Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H <sub>2</sub> O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 7/21/24

E 3769

Ken Koehnlein  
Sr. Manager, Quality Assurance

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 22D0862014

Manufactured Date: 2022-02-23

Retest Date: 2027-02-22

Revision No.: 0

## Certificate of Analysis

Test	Specification	Result
ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )	95.0 – 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO <sub>2</sub> )	≤ 2 ppm	< 2 ppm
Ammonium (NH <sub>4</sub> )	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO <sub>3</sub> )	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

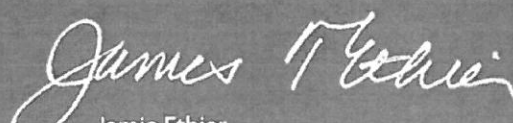


Material No.: 9673-33  
Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities – Sodium (Na)	$\leq 500.0$ ppb	6.2 ppb
Trace Impurities – Strontium (Sr)	$\leq 5.0$ ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	$\leq 5.0$ ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	$\leq 5.0$ ppb	0.6 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA  
Packaging Site: Phillipsburg Mfg Ctr & DC

  
Jamie Ethier  
Vice President Global Quality



W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

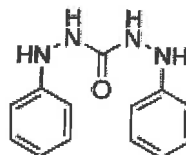
C<sub>13</sub>H<sub>14</sub>N<sub>4</sub>O

Formula Weight:

242.28 g/mol


Quality Release Date:

02 JUN 2022



## Certificate of Analysis

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





# SHIPPING DOCUMENTS

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# CHEMTECH

## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 • Fax (908) 789-8922  
www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 2041309

P3467

### CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs  
ADDRESS: 412 Mt Kemble Ave Suite #100  
CITY: Morrisstown STATE: NJ ZIP: 07960  
ATTENTION: John Yankovic  
PHONE: (201) 414-1719 FAX:

### CLIENT PROJECT INFORMATION

PROJECT NAME: STC PFC  
PROJECT NO.: D3774422 LOCATION: Princeton Junction  
PROJECT MANAGER: Mary Murphy  
e-mail: Mary.Murphy@Jacobs.com  
PHONE: (201) 936-0586 FAX:

### CLIENT BILLING INFORMATION

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

### ANALYSIS

### DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS\*  
HARDCOPY (DATA PACKAGE): DAYS\*  
EDD: DAYS\*

\*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

### DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other  
☐ EDD FORMAT

VOCs 82603  
SWOG + PAHs 82705  
82205 SUM  
Metals 60208, Hg  
74728  
Cu (V) 7416A

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E						← Specify Preservatives	
1.	919-J-WS-080224	WS		X	8/2/24	1325	8	2	4	1	1						A-HCl	D-NaOH
2.	TB-03-080224	DI		X	8/2/24	1505	1	1									B-HNO3	E-ICE
3.																	C-H2SO4	F-OTHER
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

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

RELINQUISHED BY SAMPLER:	DATE/TIME: 8/2/24 1620	RECEIVED BY: [Signature] 8-2-24 1620	Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 2.90 °C
1. [Signature]			Comments: See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO metals
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	2L extra volume for SVOC + PAH analysis
2. [Signature]			
RELINQUISHED BY SAMPLER:	DATE/TIME: 8-2-24 1745	RECEIVED BY:	
3. [Signature]			

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other  
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete  
☐ YES ☐ NO

### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

## LOGIN REPORT/SAMPLE TRANSFER

<b>Order ID :</b> P3467	JACO05	<b>Order Date :</b> 8/2/2024 4:30:00 PM	<b>Project Mgr :</b>
<b>Client Name :</b> JACOBS Engineering Grou		<b>Project Name :</b> Former Schlumberger Site I	<b>Report Type :</b> Level 4
<b>Client Contact :</b> Mary I. Murphy		<b>Receive DateTime :</b> 8/2/2024 12:00:00 AM	<b>EDD Type :</b> CH2MHILL
<b>Invoice Name :</b> JACOBS Engineering Grou		<b>Purchase Order :</b> 16:45	<b>Hard Copy Date :</b>
<b>Invoice Contact :</b> Mary I. Murphy			<b>Date Signoff :</b>

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3467-01	919-J-WS-080224	Water	08/02/2024	13:25					
					VOCMS Group6		8260-Low	10 Bus. Days	
P3467-02	TB-03-080224	Water	08/02/2024	15:05					
					VOCMS Group6		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 8-5-24 850

Received By :

Date / Time : 8/5/24 8.50

Storage Area : VOA Refridgerator Room