



Monday, March 22, 2021

Karen Waters-Husted  
Central Plateau Cleanup Company, LLC  
825 Jadwin Avenue  
Richland, WA 99352

Re: ALS Workorder: 2103020  
Project Name: RCRA, March 2021  
Project Number: W21-003

Dear Ms. Waters-Husted:

Five water samples were received from Central Plateau Cleanup Company, LLC, on 3/2/2021. The samples were scheduled for the following analyses:

Inorganics

PCBs

Pesticides

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental  
Katie M. O'Brien  
Project Manager

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

# ALS -- Fort Collins

## Sample Number(s) Cross-Reference Table

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**OrderNum:** 2103020

**Client Name:** Central Plateau Cleanup Company, LLC

**Client Project Name:** RCRA, March 2021

**Client Project Number:** W21-003

**Client PO Number:** BOA 74395

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B40632	2103020-1		WATER	01-Mar-21	11:05
B40639	2103020-2		WATER	01-Mar-21	6:50
B40640	2103020-3		WATER	01-Mar-21	8:21
B40659	2103020-4		WATER	01-Mar-21	12:43
B40603	2103020-5		WATER	01-Mar-21	10:10

2103020

Collector: <b>Jeff Lucas</b> CPC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650
SAF No.: W21-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152
Project Title: RCRA, March 2021	Logbook No.: HNF-N-506 -121	Ice Chest No.: GWS-093
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No.: 773033296123
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: NA SEC 2/1/21

**POSSIBLE SAMPLE HAZARDS/REMARK**  
 \*\* \*\* Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

**SPECIAL INSTRUCTIONS**  
 N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B40632 1	N	W	3/1/21	1105	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B40632 ↓	N	W	1	1	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

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ALS2103020

March 22, 2021

Relinquished By			Received By			Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	
Jeff Lucas CPC	<i>[Signature]</i>	MAR 01 2021 1200	Kathy Turner CPC	<i>[Signature]</i>	MAR 01 2021 1200	
Kathy Turner CPC	<i>[Signature]</i>	MAR 01 2021 1400	FEDEX	<i>[Signature]</i>		
	FEDEX		Rose Argent	<i>[Signature]</i>	03-02-21 1140	

<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:
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Rev. 0

2103020

<b>Collector:</b> Jeff Lucas CPCC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> W21-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 900152
<b>Project Title:</b> RCRA, March 2021	<b>Logbook No.:</b> HNF-N-506 -121	<b>Ice Chest No.:</b> 6WS048
<b>Shipped To (Lab):</b> ALS Environmental Ft. Collins	<b>Method of Shipment:</b> Commercial Carrier	<b>Bill of Lading/Air Bill No.:</b> 773028711563
<b>Protocol:</b> RCRA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> NA SEC 21121

<b>POSSIBLE SAMPLE HAZARDS/REMARK</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B40639	2	N	3/1/21	0650	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B40639	↓	N	1	1	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

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ALS2103020

March 22, 2021

Relinquished By	Received By	Matrix *
Print First and Last Name      Signature      Date/Time	Print First and Last Name      Signature      Date/Time	S = Soil      DS = Drum Solids SE = Sediment      DL = Drum Liquids SO = Solid      T = Tissue SL = Sludge      WI = Wipe W = Water      L = Liquid O = Oil      V = Vegetation A = Air      X = Other
Jeff Lucas <i>[Signature]</i> MAR 01 2021 0905	Kathy Turner <i>[Signature]</i> MAR 01 2021 0905 CPCC	
Kathy Turner <i>[Signature]</i> MAR 01 2021 1400 CPCC	<b>FEDEX</b>	
<b>FEDEX</b>	Rose Argent <i>[Signature]</i> 03-02-21 1140	
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:
		Date/Time:

Rev. 0

Central Plateau Cleanup Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C.# W21-003-024				
					Page 1 of 1				
Collector: Jeff Lucas CPC		Contact/Requester: Karen Waters-Husted		Telephone No.: 509-376-4650					
SAF No.: W21-003		Sampling Origin: Hanford Site		Purchase Order/Charge Code: 900152					
Project Title: RCRA, March 2021		Logbook No.: HNF-N-506 -121		Ice Chest No.: GWS 048					
Shipped To (Lab): ALS Environmental Ft. Collins		Method of Shipment Commercial Carrier		Bill of Lading/Air Bill No.: 773028711563					
Protocol: RCRA		Priority: 30 Days		Offsite Property No.: NA 888 2/1/21					
<b>POSSIBLE SAMPLE HAZARDS/REMARK</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1				<b>SPECIAL INSTRUCTIONS</b> N/A					
Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative	
B40640	3	N	W	3/1/21	0821	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B40640	↓	N	W	1	1	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

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Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	S = Soil	DS = Drum Solids
Jeff Lucas CPC	<i>[Signature]</i>	MAR 01 2021 0905	Kathy Turner CPC	<i>[Signature]</i>	MAR 01 2021 0905	SE = Sediment	DL = Drum Liquids
Kathy Turner CPC	<i>[Signature]</i>	MAR 01 2021 1400	FEDEX			SO = Solid	T = Tissue
	FEDEX		Rose Arment	<i>[Signature]</i>	03-02-21 1140	SL = Sludge	WI = Wipe
						W = Water	L = Liquid
						O = Oil	V = Vegetation
						A = Air	X = Other

<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:
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Rev. 0

<b>Collector:</b> Jeff Lucas CPCC	<b>Contact/Requester:</b> Karen Waters-Husted	<b>Telephone No.:</b> 509-376-4650
<b>SAF No.:</b> W21-003	<b>Sampling Origin:</b> Hanford Site	<b>Purchase Order/Charge Code:</b> 900152
<b>Project Title:</b> RCRA, March 2021	<b>Logbook No.:</b> HNF-N-506-121	<b>Ice Chest No.:</b> GWS-093
<b>Shipped To (Lab):</b> ALS Environmental Ft. Collins	<b>Method of Shipment:</b> Commercial Carrier	<b>Bill of Lading/Air Bill No.:</b> 773033296123
<b>Protocol:</b> RCRA	<b>Priority:</b> 30 Days	<b>Offsite Property No.:</b> NA see all

<b>POSSIBLE SAMPLE HAZARDS/REMARK</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B40659	4	N	3/1/21	1243	1x250-mL G/P	2320_ALKALINITY: COMMON	14 Days	Cool <=6C
B40659	↓	N	1	1	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B40659	↓	N	3/1/21	1243	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

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Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time		
Jeff Lucas CPCC	<i>[Signature]</i>	MAR 01 2021 1305	Kathy Turner CPCC	<i>[Signature]</i>	MAR 01 2021 1305	SE = Sediment	DL = Drum Liquids
Kathy Turner CPCC	<i>[Signature]</i>	MAR 01 2021 1400	<b>FEDEX</b>			SO = Solid	T = Tissue
	<b>FEDEX</b>		Rose Arment	<i>[Signature]</i>	03-02-21 1140	SL = Sludge	WI = Wipe
						W = Water	L = Liquid
						O = Oil	V = Vegetation
						A = Air	X = Other
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):				Disposed By:	Date/Time:	

ALS2103020

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Central Plateau Cleanup Company		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>		C.O.C.# W21-003-028
		2103020		Page 1 of 1
Collector: Jeff Lucas CPCC	Contact/Requester: Karen Waters-Husted	Telephone No.: 509-376-4650		
SAF No.: W21-003	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 900152		
Project Title: RCRA, March 2021	Logbook No.: HNF-N-506 - 121	Ice Chest No.: GWS-138		
Shipped To (Lab): ALS Environmental Ft. Collins	Method of Shipment Commercial Carrier	Bill of Lading/Air Bill No.: 773030468678		
Protocol: RCRA	Priority: 30 Days	Offsite Property No.: NA SCC 21121		

<b>POSSIBLE SAMPLE HAZARDS/REMARK</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1	<b>SPECIAL INSTRUCTIONS</b> N/A
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Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B40603	5	N	W 3/1/21	1010	1x250-mL G/P	2320_ALKALINITY: COMMON	14 Days	Cool <=6C
B40603	↓	N	W 1	1	4x1-L aG	8081_PEST_GC: COMMON; 8081_PEST_GC: CH 01	7/40 Days	Cool <=6C
B40603	↓	N	W 3/1/21	1010	4x1-L aG	8082_PCB_GC: COMMON	None	Cool <=6C

Relinquished By			Received By			Matrix *	
Print First and Last Name	Signature	Date/Time	Print First and Last Name	Signature	Date/Time	S = Soil	DS = Drum Solids
Jeff Lucas CPCC	<i>[Signature]</i>	MAR 01 2021 1040	Mike Esparza CPCC	<i>[Signature]</i>	MAR 01 2021 1040	SE = Sediment	DL = Drum Liquids
Mike Esparza CPCC	<i>[Signature]</i>	MAR 01 2021 1140	FEDEX	<i>[Signature]</i>		SO = Solid	T = Tissue
			Rose Ardent	<i>[Signature]</i>	03-02-21 1140	SL = Sludge	WI = Wipe
						W = Water	L = Liquid
						O = Oil	V = Vegetation
						A = Air	X = Other
<b>FINAL SAMPLE DISPOSITION</b>	Disposal Method (e.g., Return to customer, per lab procedure, used in process):				Disposed By:	Date/Time:	

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ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: CPCC Workorder No: 2103020
Project Manager: KMO Initials: RGA Date: 03/02/2021

1. Are airbills / shipping documents present and/or removable?
2. Are custody seals on shipping containers intact?
3. Are custody seals on sample containers intact?
4. Is there a COC (chain-of-custody) present?
5. Is the COC in agreement with samples received?
6. Are short-hold samples present?
7. Are all samples within holding times for the requested analyses?
8. Were all sample containers received intact?
9. Is there sufficient sample for the requested analyses?
10. Are samples in proper containers for requested analyses?
11. Are all aqueous samples preserved correctly, if required?
12. Were unpreserved samples pH checked, if required?
13. Are all samples requiring no headspace free of bubbles > 6 mm in diameter?
14. Were the samples shipped on ice?
15. Were cooler temperatures measured at 0.1 - 6.0°C? IR gun used: #3 #5

Table with columns for Cooler # (1, 2, 3), Temperature (°C) (2.6, 2.0, 0.9), # of custody seals on cooler (2, 2, 2), External uR/hr reading (11, 11, 11), and Background uR/hr reading (10). Includes a question about external mR/hr readings.

\* Please provide details below for 'NO' responses in gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

Blank area for providing details for 'NO' responses.

All client bottle ID's vs ALS lab ID's double-checked by: RGA

If applicable, was the client contacted? YES NO Contact Name: Date:

Project Manager Signature / Date: [Signature] 3/3/21



ORIGIN ID:PSCA (509) 376-0951  
CHRISTINA AGUILAR  
6269 LATAH STREET  
RICHLAND, WA 99354  
UNITED STATES US

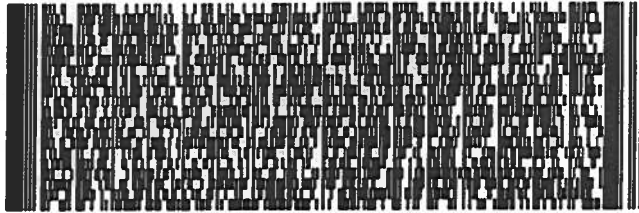
SHIP DATE: 01MAR21  
ACTWGT: 82.00 LB  
CAD: 107066051/NET4340  
BILL THIRD PARTY

TO JULIE ELLINGSON  
ALS ENVIRONMENTAL  
225 COMMERCE DRIVE

11-2  
2-0

56D.G/AC39FE4A

FORT COLLINS CO 80524  
(970) 490-1511 REF: GWS-138/900153  
INV: PO: DEPT:

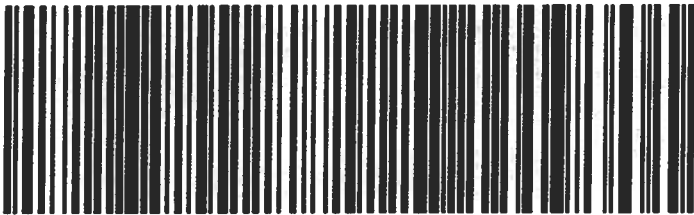


TUE - 02 MAR 10:30A  
PRIORITY OVERNIGHT

TRK# 7730 3046 8678  
0201

XH FTCA

DSR 80524  
CO-US DEN



ORIGIN ID:PSCA (509) 376-0951  
CHRISTINA AGUILAR  
6269 LATAH STREET  
RICHLAND, WA 99354  
UNITED STATES US

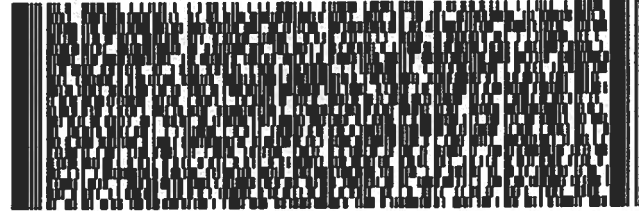
SHIP DATE: 01MAR21  
ACTWGT: 92.00 LB  
CAD: 107066051/NET4340  
BILL THIRD PARTY

TO JULIE ELLINGSON  
ALS ENVIRONMENTAL  
225 COMMERCE DRIVE

11-2  
2.6

56D.G/AC39FE4A

FORT COLLINS CO 80524  
(970) 490-1511 REF: GWS-048/900153  
INV: PO: DEPT:

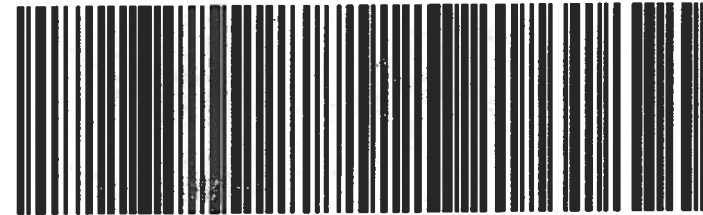


TUE - 02 MAR 10:30A  
PRIORITY OVERNIGHT

TRK# 7730 2871 1563  
0201

XH FTCA

DSR 80524  
CO-US DEN



ORIGIN ID: PSCA (509) 376-0951  
CHRISTINA AGUILAR  
6269 LATAH STREET  
RICHLAND, WA 99354  
UNITED STATES US

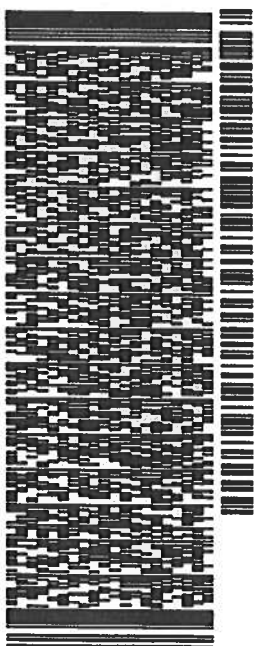
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CAD: 107068051/INNET4340  
BILL THIRD PARTY

TO JULIE ELLINGSON  
ALS ENVIRONMENTAL  
225 COMMERCE DRIVE

11-2  
0.4

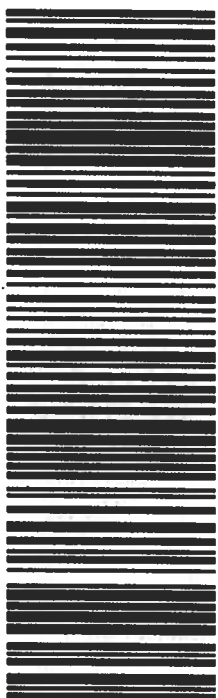
56D.J3/AC39/FE4A

FORT COLLINS CO 80524  
(970) 490-1511 REF: GWS-093900153  
NV: DEPT:  
PO:



TRK# 7730 3329 6123  
[0201] TUE - 02 MAR 10:30A  
PRIORITY OVERNIGHT  
DSR 80524  
CO-US DEN

XH FTCA



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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# Inorganics

## Case Narrative

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### Central Plateau Cleanup Company, LLC

RCRA, March 2021 – W21-003

Work Order Number: 2103020

1. The samples were prepared for analysis based on Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition 1998 procedures.
2. The samples were analyzed following Standard Method procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	SM2320B	1106

3. All standards and solutions were used within their recommended shelf life.
4. The samples were prepared and analyzed within the established hold time for this analysis.

All in house quality control procedures were followed, as described below.

5. General quality control procedures.
  - n A preparation (method) blank, laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) were prepared and analyzed with the samples in this preparation batch.
  - n The method blank associated with this batch was below the reporting limit for the requested analyte. Sample results have been compared to the blank results and are flagged as appropriate.
  - n All laboratory control sample criteria were met.
6. Matrix specific quality control procedures.



Sample 2102445-3 was designated as the quality control sample for this analysis. Results for the shared quality control samples are included at the client's request.

- n A sample duplicate was prepared and analyzed with this batch. All guidance criteria for precision were met.
- 7. A reduced aliquot was taken of the samples for the alkalinity analysis. Reporting limits were elevated accordingly.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

  
\_\_\_\_\_  
Megan Johnstone  
Inorganics Primary Data Reviewer

3/9/21  
Date

  
\_\_\_\_\_  
Inorganics Final Data Reviewer

3/12/21  
Date



### Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to ALS's Method Detection Limit. If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
  - E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
  - M - Duplicate injection precision was not met.
  - N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
  - Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
  - \* - Duplicate analysis (relative percent difference) not within control limits.
  - S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.
  - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was  $\leq 20X$  the blank concentration.
  - D - Analyte was reported at a secondary dilution factor, typically  $DF > 1$  (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

**TOTAL ALKALINITY As CaCO<sub>3</sub>****Method SM2320B****Sample Results**

**Lab Name:** ALS -- Fort Collins  
**Client Name:** Central Plateau Cleanup Company, LLC  
**Client Project ID:** RCRA, March 2021 W21-003  
**Work Order Number:** 2103020      **Final Volume:** 100 ml  
**Reporting Basis:** As Received      **Matrix:** WATER  
**Prep Method:** NONE      **Result Units:** MG/L  
**Analyst:** Keli J. Smith

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ/LOD	Flag	Sample Aliquot
B40659	2103020-4	03/01/2021	03/03/2021	03/05/2021	N/A	1	100	20		25 ml
B40603	2103020-5	03/01/2021	03/03/2021	03/05/2021	N/A	1	100	20		25 ml

**Comments:**

1. ND or U = Not Detected at or above the client requested detection limit.

**Data Package ID:** *ak2103020-1*

**TOTAL ALKALINITY As CaCO<sub>3</sub>****Method SM2320B****Method Blank****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103020**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** RCRA, March 2021 W21-003**Lab ID:** AK210305-2MB**Sample Matrix:** WATER**% Moisture:** N/A**Prep Batch:** AK210305-2**QCBatchID:** AK210305-2-1**Run ID:** AK210305-1a1**Cleanup:** NONE**Basis:** N/A**Sample Aliquot:** 100 ml**Final Volume:** 100 ml**Result Units:** MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag
AK210305-2MB	3/3/2021	03/05/2021	N/A	1	5	5	U

**Comments:**

1. ND or U = Not Detected at or above the client requested detection limit.

**Data Package ID:** ak2103020-1

**TOTAL ALKALINITY As CaCO<sub>3</sub>****Method SM2320B****Laboratory Control Sample and Laboratory Control Sample Duplicate**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: AK210305-2LCS

Sample Matrix: WATER

Prep Batch: AK210305-2

Sample Aliquot: 100 ml

% Moisture: N/A

QCBatchID: AK210305-2-1

Final Volume: 100 ml

Date Collected: N/A

Run ID: AK210305-1a1

Result Units: MG/L

Date Extracted: 03-Mar-21

Cleanup: NONE

Date Analyzed: 05-Mar-21

Basis: N/A

Prep Method: NONE

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
3812-32-6	TOTAL ALKALINITY As CaCO <sub>3</sub>	100	98.9	5		99	85 - 115

Lab ID: AK210305-2LCSD

Sample Matrix: WATER

Prep Batch: AK210305-2

Sample Aliquot: 100 ml

% Moisture: N/A

QCBatchID: AK210305-2-1

Final Volume: 100 ml

Date Collected: N/A

Run ID: AK210305-1a1

Result Units: MG/L

Date Extracted: 03-Mar-21

Cleanup: NONE

Date Analyzed: 05-Mar-21

Basis: N/A

Prep Method: NONE

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
3812-32-6	TOTAL ALKALINITY As CaCO <sub>3</sub>	100	98.7	5		99	15	0

Data Package ID: ak2103020-1



**TOTAL ALKALINITY As CaCO<sub>3</sub>****Method SM2320B****Duplicate Sample Results****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103020**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** RCRA, March 2021 W21-003**Reporting Basis:** As Received**Sample Aliquot:** 25 ml**Final Volume:** 100ml**Matrix:** WATER**Result Units:** MG/L

Client Sample ID	Lab ID	Date Prepared	Date Analyzed	Dilution Factor	Duplicate Result	Dup Qual	Sample Result	Samp Qual	Reporting Limit	RPD	RPD Limit
SHARED QC	2102445-3D	03/03/2021	03/05/2021	1	133		140		20	3	15

**Comments:**

1. ND or U = Not Detected at or above the client requested detection limit.

**Data Package ID:** ak2103020-1**Date Printed:** Tuesday, March 09, 2021**ALS -- Fort Collins**

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**Prep Batch ID: AK210305-2**

Start Date: 03/03/21	End Date: 03/03/21	Concentration Method: NONE	Batch Created By: kjs
Start Time: 10:00	End Time: 14:00	Extract Method: NONE	Date Created: 03/03/21
Prep Analyst: Keli J. Smith		Initial Volume Units: ml	Time Created: 8:12
<b>Comments:</b>		Final Volume Units: ml	Validated By: kjs
			Date Validated: 03/08/21
			Time Validated: 7:15

QC Batch ID: AK210305-2-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
AK210305-2	MB	XXXXXX	WATER	XXXXXX	100	100	NONE	1	2102445
AK210305-2	LCS	XXXXXX	WATER	XXXXXX	100	100	NONE	1	2102445
AK210305-2	LCSD	XXXXXX	WATER	XXXXXX	100	100	NONE	1	2102445
2102445-3	DUP	XXXXXX	WATER	XXXXXX	25	100	NONE	1	2102445
2102445-3	SMP	XXXXXX	WATER	XXXXXX	25	100	NONE	1	2102445
2102445-4	SMP	XXXXXX	WATER	XXXXXX	25	100	NONE	1	2102445
2103019-1	SMP	XXXXXX	WATER	XXXXXX	25	100	NONE	1	2103019
2103019-2	SMP	XXXXXX	WATER	XXXXXX	25	100	NONE	1	2103019
2103020-4	SMP	B40659	WATER	3/1/2021	25	100	NONE	1	2103020
2103020-5	SMP	B40603	WATER	3/1/2021	25	100	NONE	1	2103020

**QC Types**

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicat	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike



# PCBs

## Case Narrative

---

### **Central Plateau Cleanup Company, LLC**

RCRA, March 2021 – W21-003

Work Order Number: 2103020

1. These samples were extracted and analyzed according to SW-846, 4th Edition procedures. Specifically, the water samples were extracted using continuous liquid-liquid extractors according to the current revision of SOP 617 based on Method 3520C.

The extracts were then processed using sulfuric acid cleanup according to the current revision of SOP 651 based on Method 3665A in an attempt to remove potential interferences.

2. The extracts were then analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082. All positive results were then confirmed on a secondary column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.
3. All initial and continuing calibration criteria were met.
4. The method blank associated with this project was below the MDL for all analytes.
5. All laboratory control sample recoveries were within the acceptance criteria.
6. Sample 2103095-1 was designated as the quality control sample for this analysis. Results for the shared quality control samples are included at the client's request.

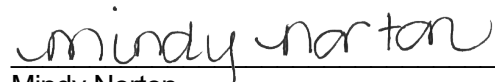
Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

All matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria.



7. Per SW-846, 4th Edition, there is no holding time for the preparation and analysis of polychlorinated biphenyls (PCBs).
8. All surrogate recoveries were within acceptance criteria.
9. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

  
\_\_\_\_\_  
Mindy Norton  
Organics Primary Data Reviewer

3/18/21  
Date

  
\_\_\_\_\_  
Organics Final Data Reviewer

3/22/21  
Date

**ALS**  
**Data Qualifier Flags**  
**Organics**

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- \*:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

## PCBs

Method SW8082

Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1BMB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08-Mar-21

Date Analyzed: 16-Mar-21

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: N/A

File Name: 32225.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.15	U	1	0.15
11104-28-2	AROCLOR-1221	1	0.15	U	2	0.15
11141-16-5	AROCLOR-1232	1	0.15	U	1	0.15
53469-21-9	AROCLOR-1242	1	0.15	U	1	0.15
12672-29-6	AROCLOR-1248	1	0.15	U	1	0.15
11097-69-1	AROCLOR-1254	1	0.15	U	1	0.15
11096-82-5	AROCLOR-1260	1	0.15	U	1	0.15

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.488		0.5	98	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.496		0.5	99	66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

ALS -- Fort Collins

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## PCBs

## Method SW8082

## Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40632

Lab ID: 2103020-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 16-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: As Received

File Name: 32227.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082\_PCB\_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.93	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.9	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.93	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.93	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.93	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.93	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.93	0.14

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.42		0.463	91	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.452		0.463	98	66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

ALS -- Fort Collins

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## PCBs

## Method SW8082

## Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40639

Lab ID: 2103020-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 16-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: As Received

File Name: 32228.dat

Analyst: Dan Sheneman

Sample Aliquot: 1100 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082\_PCB\_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.91	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.8	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.91	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.91	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.91	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.91	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.91	0.14

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.223		0.455	49	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.44		0.455	97	66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

ALS -- Fort Collins

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## PCBs

## Method SW8082

## Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40640

Lab ID: 2103020-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 17-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: As Received

File Name: 32229.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082\_PCB\_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.93	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.9	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.93	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.93	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.93	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.93	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.93	0.14

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.424		0.463	92	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.417		0.463	90	66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

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## PCBs

## Method SW8082

## Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40659

Lab ID: 2103020-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 17-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: As Received

File Name: 32230.dat

Analyst: Dan Sheneman

Sample Aliquot: 1100 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082\_PCB\_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.91	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.8	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.91	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.91	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.91	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.91	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.91	0.14

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.397		0.455	87	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.413		0.455	91	66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

ALS -- Fort Collins

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LIMS Version: 7.013

**PCBs****Method SW8082****Sample Results**

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40603

Lab ID: 2103020-5

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 17-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: As Received

File Name: 32231.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8082\_PCB\_GC: C

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
12674-11-2	AROCLOR-1016	1	0.14	U	0.93	0.14
11104-28-2	AROCLOR-1221	1	0.14	U	1.9	0.14
11141-16-5	AROCLOR-1232	1	0.14	U	0.93	0.14
53469-21-9	AROCLOR-1242	1	0.14	U	0.93	0.14
12672-29-6	AROCLOR-1248	1	0.14	U	0.93	0.14
11097-69-1	AROCLOR-1254	1	0.14	U	0.93	0.14
11096-82-5	AROCLOR-1260	1	0.14	U	0.93	0.14

**Surrogate Recovery**

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.371		0.463	80	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.417		0.463	90	66 - 130

Data Package ID: *PT2103020-1*

Date Printed: Thursday, March 18, 2021

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# PCBs

## Method SW8082

### Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1BLCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/08/2021

Date Analyzed: 03/16/2021

Prep Method: SW3520C

Prep Batch: EX210308-1

QCBatchID: EX210308-1-2

Run ID: PT210316-11

Cleanup: SW3665

Basis: N/A

File Name: 32226.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
12674-11-2	AROCLOR-1016	4	4.29	1		107	76 - 124%
11096-82-5	AROCLOR-1260	4	4.29	1		107	79 - 133%

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.389		0.5	78	4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.502		0.5	100	66 - 130

Data Package ID: *PT2103020-1*

Date Printed: Thursday, March 18, 2021

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## PCBs

## Method SW8082

## Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: SHARED QC	Sample Matrix: WATER	Prep Batch: EX210308-1	Sample Aliquot: 1060 ml
LabID: 2103095-1MS	% Moisture: N/A	QCBatchID: EX210308-1-2	Final Volume: 10 ml
	Date Collected: 02-Mar-21	Run ID: PT210316-11	Result Units: UG/L
	Date Extracted: 08-Mar-21	Cleanup: SW3665	File Name: 32233.dat
	Date Analyzed: 17-Mar-21	Basis: As Received	
	Prep Method: SW3520 Rev C		

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
12674-11-2	AROCLOR-1016	0.142	U	3.87		0.943	3.77	103	76 - 124%
11096-82-5	AROCLOR-1260	0.142	U	3.99		0.943	3.77	106	79 - 133%

Field ID: SHARED QC	Sample Matrix: WATER	Prep Batch: EX210308-1	Sample Aliquot: 1100 ml
LabID: 2103095-1MSD	% Moisture: N/A	QCBatchID: EX210308-1-2	Final Volume: 10 ml
	Date Collected: 02-Mar-21	Run ID: PT210316-11	Result Units: UG/L
	Date Extracted: 08-Mar-21	Cleanup: SW3665	File Name: 32234.dat
	Date Analyzed: 17-Mar-21	Basis: As Received	
	Prep Method: SW3520 Rev C		

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
12674-11-2	AROCLOR-1016	3.71		3.64	102	0.909	30	4
11096-82-5	AROCLOR-1260	3.64		3.64	100	0.909	30	9

## Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.472	73		71		4 - 151
877-09-8	TETRACHLORO-M-XYLENE	0.472	92		95		66 - 130

Data Package ID: PT2103020-1

Date Printed: Thursday, March 18, 2021

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<b>Prep Batch ID: EX210308-1</b>
----------------------------------

Start Date: 03/08/21

End Date: 03/09/21

Concentration Method: CKIS

Batch Created By: cpc

Start Time: 14:00

End Time: 9:00

Extract Method: SW3520C

Date Created: 03/08/21

Prep Analyst: Chris P. Casillas

Initial Volume Units: ml

Time Created: 13:55

**Comments:**

Final Volume Units: ml

Validated By: cpc

Date Validated: 03/08/21

Time Validated: 14:37

QC Batch ID: EX210308-1-2

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX210308-1B	MB	XXXXXX	WATER	XXXXXX	1000	10	SW3665	1	2103095
EX210308-1B	LCS	XXXXXX	WATER	XXXXXX	1000	10	SW3665	1	2103095
2103095-1	MS	XXXXXX	WATER	XXXXXX	1060	10	SW3665	1	2103095
2103095-1	MSD	XXXXXX	WATER	XXXXXX	1100	10	SW3665	1	2103095
2103020-1	SMP	B40632	WATER	3/1/2021	1080	10	SW3665	1	2103020
2103020-2	SMP	B40639	WATER	3/1/2021	1100	10	SW3665	1	2103020
2103020-3	SMP	B40640	WATER	3/1/2021	1080	10	SW3665	1	2103020
2103020-4	SMP	B40659	WATER	3/1/2021	1100	10	SW3665	1	2103020
2103020-5	SMP	B40603	WATER	3/1/2021	1080	10	SW3665	1	2103020
2103036-1	SMP	XXXXXX	WATER	XXXXXX	1100	10	SW3665	1	2103036
2103036-2	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2103036
2103036-3	SMP	XXXXXX	WATER	XXXXXX	1100	10	SW3665	1	2103036
2103036-4	SMP	XXXXXX	WATER	XXXXXX	1100	10	SW3665	1	2103036
2103095-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2103095
2103157-1	SMP	XXXXXX	WATER	XXXXXX	1100	10	SW3665	1	2103157
2103157-2	SMP	XXXXXX	WATER	XXXXXX	1080	10	SW3665	1	2103157

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

**QC Types**

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike



# Pesticides

## Case Narrative

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### **Central Plateau Cleanup Company, LLC**

RCRA, March 2021 – W21-003

Work Order Number: 2103020

1. These samples were extracted and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water samples were extracted using continuous liquid-liquid extractors, according to the current revision of SOP 617 based on Method 3520C.
2. The extracts were then analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 402 based on Method 8081B. All positive results were then confirmed on a secondary column. Unless interferences were present, the quantitation of each analyte is the higher of the concentrations obtained from each column that met initial and continuing calibration criteria. Note that analyst raw data annotation may provide further clarification.
3. The breakdown for endrin and 4,4'-DDT met acceptance criteria.
4. All initial and continuing calibration criteria were met.
5. The method blank associated with this project was below the MDL for all analytes.
6. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
7. Sample 2103095-1 was designated as the quality control sample for this analysis. Results for the shared quality control samples are included at the client's request.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

All matrix spike and matrix spike duplicate recoveries and RPDs were within acceptance criteria.

8. All samples were extracted and analyzed within the established holding times.
9. All surrogate recoveries were within acceptance criteria.



10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mindy Norton

Mindy Norton  
Organics Primary Data Reviewer

3/19/21  
Date

[Signature]

Organics Final Data Reviewer

3/22/21  
Date



**ALS**  
**Data Qualifier Flags**  
**Organics**

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- \*:** This flag indicates that a spike recovery is equal to or outside the control criteria used.
- +:** This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

# Organochlorine Pesticides

## Method SW8081B

### Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1AMB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Batch: EX210308-1

QCBatchID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: N/A

File Name: 18231.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.025	U	0.05	0.025
58-89-9	GAMMA-BHC (LINDANE)	1	0.025	U	0.05	0.025
76-44-8	HEPTACHLOR	1	0.025	U	0.05	0.025
309-00-2	ALDRIN	1	0.025	U	0.05	0.025
319-85-7	BETA-BHC	1	0.025	U	0.05	0.025
319-86-8	DELTA-BHC	1	0.025	U	0.05	0.025
1024-57-3	HEPTACHLOR EPOXIDE	1	0.025	U	0.05	0.025
959-98-8	ENDOSULFAN I	1	0.025	U	0.05	0.025
5103-74-2	GAMMA-CHLORDANE	1	0.025	U	0.05	0.025
5103-71-9	ALPHA-CHLORDANE	1	0.025	U	0.05	0.025
72-55-9	4,4'-DDE	1	0.025	U	0.05	0.025
60-57-1	DIELDRIN	1	0.025	U	0.05	0.025
72-20-8	ENDRIN	1	0.025	U	0.05	0.025
72-54-8	4,4'-DDD	1	0.025	U	0.05	0.025
33213-65-9	ENDOSULFAN II	1	0.025	U	0.05	0.025
50-29-3	4,4'-DDT	1	0.025	U	0.05	0.025
7421-93-4	ENDRIN ALDEHYDE	1	0.025	U	0.05	0.025
72-43-5	METHOXYCHLOR	1	0.075	U	0.25	0.075
1031-07-8	ENDOSULFAN SULFATE	1	0.025	U	0.05	0.025
53494-70-5	ENDRIN KETONE	1	0.025	U	0.05	0.025
8001-35-2	TOXAPHENE	1	0.75	U	2.5	0.75

Data Package ID: PT2103020-2

# Organochlorine Pesticides

## Method SW8081B

### Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1AMB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Batch: EX210308-1

QCBatchID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: N/A

File Name: 18231.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
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## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.43		0.5	86	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.467		0.5	93	69 - 120

Data Package ID: PT2103020-2

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40632

Lab ID: 2103020-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18233.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.046	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.046	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.046	0.023
309-00-2	ALDRIN	1	0.023	U	0.046	0.023
319-85-7	BETA-BHC	1	0.023	U	0.046	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.046	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.046	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.046	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.046	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.046	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.046	0.023
60-57-1	DIELDRIN	1	0.023	U	0.046	0.023
72-20-8	ENDRIN	1	0.023	U	0.046	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.046	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.046	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.046	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.046	0.023
72-43-5	METHOXYCHLOR	1	0.069	U	0.23	0.069
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.046	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.046	0.023
8001-35-2	TOXAPHENE	1	0.69	U	2.3	0.69

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40632

Lab ID: 2103020-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18233.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.409		0.463	88	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.457		0.463	99	69 - 120

Data Package ID: *PT2103020-2*

Date Printed: Friday, March 19, 2021

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LIMS Version: 7.013

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40639

Lab ID: 2103020-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18234.dat

Analyst: Dan Sheneman

Sample Aliquot: 1100 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.045	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.045	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.045	0.023
309-00-2	ALDRIN	1	0.023	U	0.045	0.023
319-85-7	BETA-BHC	1	0.023	U	0.045	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.045	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.045	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.045	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.045	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.045	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.045	0.023
60-57-1	DIELDRIN	1	0.023	U	0.045	0.023
72-20-8	ENDRIN	1	0.023	U	0.045	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.045	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.045	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.045	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.045	0.023
72-43-5	METHOXYCHLOR	1	0.068	U	0.23	0.068
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.045	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.045	0.023
8001-35-2	TOXAPHENE	1	0.68	U	2.3	0.68

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40639

Lab ID: 2103020-2

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18234.dat

Analyst: Dan Sheneman

Sample Aliquot: 1100 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.232		0.455	51	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.454		0.455	100	69 - 120

Data Package ID: *PT2103020-2*

Date Printed: Friday, March 19, 2021

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# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40640

Lab ID: 2103020-3

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18235.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.046	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.046	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.046	0.023
309-00-2	ALDRIN	1	0.023	U	0.046	0.023
319-85-7	BETA-BHC	1	0.023	U	0.046	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.046	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.046	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.046	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.046	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.046	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.046	0.023
60-57-1	DIELDRIN	1	0.023	U	0.046	0.023
72-20-8	ENDRIN	1	0.023	U	0.046	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.046	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.046	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.046	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.046	0.023
72-43-5	METHOXYCHLOR	1	0.069	U	0.23	0.069
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.046	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.046	0.023
8001-35-2	TOXAPHENE	1	0.69	U	2.3	0.69

Data Package ID: *PT2103020-2*



# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40640	Sample Matrix: WATER	Prep Batch: EX210308-1	Analyst: Dan Sheneman
Lab ID: 2103020-3	% Moisture: N/A	QCBatchID: EX210308-1-1	Sample Aliquot: 1080 ml
Analysis ReqCode: 8081_PEST_GC:	Date Collected: 01-Mar-21	Run ID: PT210318-10	Final Volume: 10 ml
	Date Extracted: 08-Mar-21	Cleanup: NONE	Result Units: UG/L
	Date Analyzed: 18-Mar-21	Basis: As Received	Clean DF: 1
	Prep Method: SW3520 Rev C	File Name: 18235.dat	

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.415		0.463	90	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.434		0.463	94	69 - 120

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40659

Lab ID: 2103020-4

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18236.dat

Analyst: Dan Sheneman

Sample Aliquot: 1100 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.045	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.045	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.045	0.023
309-00-2	ALDRIN	1	0.023	U	0.045	0.023
319-85-7	BETA-BHC	1	0.023	U	0.045	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.045	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.045	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.045	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.045	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.045	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.045	0.023
60-57-1	DIELDRIN	1	0.023	U	0.045	0.023
72-20-8	ENDRIN	1	0.023	U	0.045	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.045	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.045	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.045	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.045	0.023
72-43-5	METHOXYCHLOR	1	0.068	U	0.23	0.068
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.045	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.045	0.023
8001-35-2	TOXAPHENE	1	0.68	U	2.3	0.68

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40659	Sample Matrix: WATER	Prep Batch: EX210308-1	Analyst: Dan Sheneman
Lab ID: 2103020-4	% Moisture: N/A	QCBatchID: EX210308-1-1	Sample Aliquot: 1100 ml
Analysis ReqCode: 8081_PEST_GC:	Date Collected: 01-Mar-21	Run ID: PT210318-10	Final Volume: 10 ml
	Date Extracted: 08-Mar-21	Cleanup: NONE	Result Units: UG/L
	Date Analyzed: 18-Mar-21	Basis: As Received	Clean DF: 1
	Prep Method: SW3520 Rev C	File Name: 18236.dat	

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.386		0.455	85	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.437		0.455	96	69 - 120

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40603

Lab ID: 2103020-5

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 01-Mar-21

Date Extracted: 08-Mar-21

Date Analyzed: 18-Mar-21

Prep Method: SW3520 Rev C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: As Received

File Name: 18237.dat

Analyst: Dan Sheneman

Sample Aliquot: 1080 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

Analysis ReqCode: 8081\_PEST\_GC:

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
319-84-6	ALPHA-BHC	1	0.023	U	0.046	0.023
58-89-9	GAMMA-BHC (LINDANE)	1	0.023	U	0.046	0.023
76-44-8	HEPTACHLOR	1	0.023	U	0.046	0.023
309-00-2	ALDRIN	1	0.023	U	0.046	0.023
319-85-7	BETA-BHC	1	0.023	U	0.046	0.023
319-86-8	DELTA-BHC	1	0.023	U	0.046	0.023
1024-57-3	HEPTACHLOR EPOXIDE	1	0.023	U	0.046	0.023
959-98-8	ENDOSULFAN I	1	0.023	U	0.046	0.023
5103-74-2	GAMMA-CHLORDANE	1	0.023	U	0.046	0.023
5103-71-9	ALPHA-CHLORDANE	1	0.023	U	0.046	0.023
72-55-9	4,4'-DDE	1	0.023	U	0.046	0.023
60-57-1	DIELDRIN	1	0.023	U	0.046	0.023
72-20-8	ENDRIN	1	0.023	U	0.046	0.023
72-54-8	4,4'-DDD	1	0.023	U	0.046	0.023
33213-65-9	ENDOSULFAN II	1	0.023	U	0.046	0.023
50-29-3	4,4'-DDT	1	0.023	U	0.046	0.023
7421-93-4	ENDRIN ALDEHYDE	1	0.023	U	0.046	0.023
72-43-5	METHOXYCHLOR	1	0.069	U	0.23	0.069
1031-07-8	ENDOSULFAN SULFATE	1	0.023	U	0.046	0.023
53494-70-5	ENDRIN KETONE	1	0.023	U	0.046	0.023
8001-35-2	TOXAPHENE	1	0.69	U	2.3	0.69

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Field ID: B40603	Sample Matrix: WATER	Prep Batch: EX210308-1	Analyst: Dan Sheneman
Lab ID: 2103020-5	% Moisture: N/A	QCBatchID: EX210308-1-1	Sample Aliquot: 1080 ml
Analysis ReqCode: 8081_PEST_GC:	Date Collected: 01-Mar-21	Run ID: PT210318-10	Final Volume: 10 ml
	Date Extracted: 08-Mar-21	Cleanup: NONE	Result Units: UG/L
	Date Analyzed: 18-Mar-21	Basis: As Received	Clean DF: 1
	Prep Method: SW3520 Rev C	File Name: 18237.dat	

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.391		0.463	84	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.441		0.463	95	69 - 120

Data Package ID: *PT2103020-2*

# Organochlorine Pesticides

## Method SW8081B

### Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1ALCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 03/08/2021

Date Analyzed: 03/18/2021

Prep Method: SW3520C

Prep Batch: EX210308-1

QC Batch ID: EX210308-1-1

Run ID: PT210318-10

Cleanup: NONE

Basis: N/A

File Name: 18232.dat

Sample Aliquot: 1000 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
319-84-6	ALPHA-BHC	0.4	0.422	0.05		106	80 - 122%
58-89-9	GAMMA-BHC (LINDANE)	0.4	0.406	0.05		102	80 - 124%
76-44-8	HEPTACHLOR	0.4	0.365	0.05		91	75 - 120%
309-00-2	ALDRIN	0.4	0.415	0.05		104	80 - 120%
319-85-7	BETA-BHC	0.4	0.402	0.05		101	80 - 122%
319-86-8	DELTA-BHC	0.4	0.404	0.05		101	78 - 126%
1024-57-3	HEPTACHLOR EPOXIDE	0.4	0.406	0.05		102	80 - 123%
959-98-8	ENDOSULFAN I	0.4	0.394	0.05		99	64 - 126%
5103-74-2	GAMMA-CHLORDANE	0.4	0.413	0.05		103	80 - 124%
5103-71-9	ALPHA-CHLORDANE	0.4	0.411	0.05		103	78 - 124%
72-55-9	4,4'-DDE	0.4	0.449	0.05		112	80 - 124%
60-57-1	DIELDRIN	0.4	0.413	0.05		103	80 - 123%
72-20-8	ENDRIN	0.4	0.311	0.05		78	20 - 165%
72-54-8	4,4'-DDD	0.4	0.388	0.05		97	80 - 126%
33213-65-9	ENDOSULFAN II	0.4	0.389	0.05		97	66 - 132%
50-29-3	4,4'-DDT	0.4	0.375	0.05		94	67 - 149%
7421-93-4	ENDRIN ALDEHYDE	0.4	0.421	0.05		105	67 - 149%
72-43-5	METHOXYCHLOR	0.4	0.377	0.25		94	68 - 152%
1031-07-8	ENDOSULFAN SULFATE	0.4	0.393	0.05		98	74 - 130%
53494-70-5	ENDRIN KETONE	0.4	0.43	0.05		107	73 - 139%

Data Package ID: PT2103020-2

Date Printed: Friday, March 19, 2021

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# Organochlorine Pesticides

## Method SW8081

### Laboratory Control Sample

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

Lab ID: EX210308-1ALCS	Sample Matrix: WATER	Prep Batch: EX210308-1	Sample Aliquot: 1000 ml
	% Moisture: N/A	QCBatchID: EX210308-1-1	Final Volume: 10 ml
	Date Collected: N/A	Run ID: PT210318-10	Result Units: UG/L
	Date Extracted: 03/08/2021	Cleanup: NONE	Clean DF: 1
	Date Analyzed: 03/18/2021	Basis: N/A	
	Prep Method: SW3520C	File Name: 18232.dat	

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
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### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.467		0.5	93	1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.519		0.5	104	69 - 120

Data Package ID: *PT2103020-2*

**Organochlorine Pesticides****Method SW8081B****Matrix Spike And Matrix Spike Duplicate****Lab Name: ALS -- Fort Collins****Work Order Number: 2103020****Client Name: Central Plateau Cleanup Company, LLC****ClientProject ID: RCRA, March 2021 W21-003****Field ID: SHARED QC****LabID: 2103095-1MS****Sample Matrix: WATER****% Moisture: N/A****Date Collected: 02-Mar-21****Date Extracted: 08-Mar-21****Date Analyzed: 18-Mar-21****Prep Method: SW3520 Rev C****Prep Batch: EX210308-1****QCBatchID: EX210308-1-1****Run ID: PT210318-10****Cleanup: NONE****Basis: As Received****Sample Aliquot: 1080 ml****Final Volume: 10 ml****Result Units: UG/L****File Name: 18239.dat**

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
319-84-6	ALPHA-BHC	0.0231	U	0.376		0.0463	0.37	102	80 - 122%
58-89-9	GAMMA-BHC (LINDANE)	0.0231	U	0.365		0.0463	0.37	99	80 - 124%
76-44-8	HEPTACHLOR	0.0231	U	0.337		0.0463	0.37	91	75 - 120%
309-00-2	ALDRIN	0.0231	U	0.381		0.0463	0.37	103	80 - 120%
319-85-7	BETA-BHC	0.0231	U	0.363		0.0463	0.37	98	80 - 122%
319-86-8	DELTA-BHC	0.0231	U	0.357		0.0463	0.37	96	78 - 126%
1024-57-3	HEPTACHLOR EPOXIDE	0.0231	U	0.368		0.0463	0.37	99	80 - 123%
959-98-8	ENDOSULFAN I	0.0231	U	0.349		0.0463	0.37	94	64 - 126%
5103-74-2	GAMMA-CHLORDANE	0.0231	U	0.376		0.0463	0.37	102	80 - 124%
5103-71-9	ALPHA-CHLORDANE	0.0231	U	0.379		0.0463	0.37	102	78 - 124%
72-55-9	4,4'-DDE	0.0231	U	0.41		0.0463	0.37	111	80 - 124%
60-57-1	DIELDRIN	0.0231	U	0.373		0.0463	0.37	101	80 - 123%
72-20-8	ENDRIN	0.0231	U	0.34		0.0463	0.37	92	20 - 165%
72-54-8	4,4'-DDD	0.0231	U	0.353		0.0463	0.37	95	80 - 126%
33213-65-9	ENDOSULFAN II	0.0231	U	0.343		0.0463	0.37	93	66 - 132%
50-29-3	4,4'-DDT	0.0231	U	0.344		0.0463	0.37	93	67 - 149%
7421-93-4	ENDRIN ALDEHYDE	0.0231	U	0.369		0.0463	0.37	100	67 - 149%
72-43-5	METHOXYCHLOR	0.0694	U	0.346		0.231	0.37	94	68 - 152%
1031-07-8	ENDOSULFAN SULFATE	0.0231	U	0.358		0.0463	0.37	97	74 - 130%
53494-70-5	ENDRIN KETONE	0.0231	U	0.363		0.0463	0.37	98	73 - 139%

**Data Package ID: PT2103020-2**

Date Printed: Friday, March 19, 2021

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**Organochlorine Pesticides****Method SW8081B****Matrix Spike And Matrix Spike Duplicate****Lab Name:** ALS -- Fort Collins**Work Order Number:** 2103020**Client Name:** Central Plateau Cleanup Company, LLC**ClientProject ID:** RCRA, March 2021 W21-003**Field ID:** SHARED QC**LabID:** 2103095-1MSD**Sample Matrix:** WATER**% Moisture:** N/A**Date Collected:** 02-Mar-21**Date Extracted:** 08-Mar-21**Date Analyzed:** 18-Mar-21**Prep Method:** SW3520 Rev C**Prep Batch:** EX210308-1**QCBatchID:** EX210308-1-1**Run ID:** PT210318-10**Cleanup:** NONE**Basis:** As Received**Sample Aliquot:** 1060 ml**Final Volume:** 10 ml**Result Units:** UG/L**File Name:** 18240.dat

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
319-84-6	ALPHA-BHC	0.381		0.377	101	0.0472	30	1
58-89-9	GAMMA-BHC (LINDANE)	0.362		0.377	96	0.0472	30	1
76-44-8	HEPTACHLOR	0.334		0.377	89	0.0472	30	1
309-00-2	ALDRIN	0.378		0.377	100	0.0472	30	1
319-85-7	BETA-BHC	0.358		0.377	95	0.0472	30	1
319-86-8	DELTA-BHC	0.352		0.377	93	0.0472	30	1
1024-57-3	HEPTACHLOR EPOXIDE	0.358		0.377	95	0.0472	30	3
959-98-8	ENDOSULFAN I	0.34		0.377	90	0.0472	30	3
5103-74-2	GAMMA-CHLORDANE	0.366		0.377	97	0.0472	30	3
5103-71-9	ALPHA-CHLORDANE	0.371		0.377	98	0.0472	30	2
72-55-9	4,4'-DDE	0.407		0.377	108	0.0472	30	1
60-57-1	DIELDRIN	0.363		0.377	96	0.0472	30	3
72-20-8	ENDRIN	0.337		0.377	89	0.0472	30	1
72-54-8	4,4'-DDD	0.348		0.377	92	0.0472	30	1
33213-65-9	ENDOSULFAN II	0.334		0.377	88	0.0472	30	3
50-29-3	4,4'-DDT	0.35		0.377	93	0.0472	30	2
7421-93-4	ENDRIN ALDEHYDE	0.361		0.377	96	0.0472	30	2
72-43-5	METHOXYCHLOR	0.343		0.377	91	0.236	30	1
1031-07-8	ENDOSULFAN SULFATE	0.362		0.377	96	0.0472	30	1
53494-70-5	ENDRIN KETONE	0.357		0.377	95	0.0472	30	2

**Data Package ID:** PT2103020-2

Date Printed: Friday, March 19, 2021

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# Organochlorine Pesticides

Method SW8081B

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 2103020

Client Name: Central Plateau Cleanup Company, LLC

ClientProject ID: RCRA, March 2021 W21-003

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## Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.463	70		69		1 - 144
877-09-8	TETRACHLORO-M-XYLENE	0.463	102		100		69 - 120

Data Package ID: *PT2103020-2*

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<b>Prep Batch ID: EX210308-1</b>
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Start Date: 03/08/21

End Date: 03/09/21

Concentration Method: CKIS

Batch Created By: cpc

Start Time: 14:00

End Time: 9:00

Extract Method: SW3520C

Date Created: 03/08/21

Prep Analyst: Chris P. Casillas

Initial Volume Units: ml

Time Created: 13:55

**Comments:**

Final Volume Units: ml

Validated By: cpc

Date Validated: 03/08/21

Time Validated: 14:37

QC Batch ID: EX210308-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
EX210308-1A	MB	XXXXXX	WATER	XXXXXX	1000	10	NONE	1	2103095
EX210308-1A	LCS	XXXXXX	WATER	XXXXXX	1000	10	NONE	1	2103095
2103095-1	MS	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2103095
2103095-1	MSD	XXXXXX	WATER	XXXXXX	1060	10	NONE	1	2103095
2103020-1	SMP	B40632	WATER	3/1/2021	1080	10	NONE	1	2103020
2103020-2	SMP	B40639	WATER	3/1/2021	1100	10	NONE	1	2103020
2103020-3	SMP	B40640	WATER	3/1/2021	1080	10	NONE	1	2103020
2103020-4	SMP	B40659	WATER	3/1/2021	1100	10	NONE	1	2103020
2103020-5	SMP	B40603	WATER	3/1/2021	1080	10	NONE	1	2103020
2103036-1	SMP	XXXXXX	WATER	XXXXXX	1100	10	NONE	1	2103036
2103036-2	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2103036
2103036-3	SMP	XXXXXX	WATER	XXXXXX	1100	10	NONE	1	2103036
2103036-4	SMP	XXXXXX	WATER	XXXXXX	1100	10	NONE	1	2103036
2103095-1	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2103095
2103157-1	SMP	XXXXXX	WATER	XXXXXX	1100	10	NONE	1	2103157
2103157-2	SMP	XXXXXX	WATER	XXXXXX	1080	10	NONE	1	2103157

In generating this benchsheet, prep analyst states that all aspects of sample preparation as set forth in the appropriate SOP's (including Kuderna-Danish temperatures, proper flow settings on the N-evap, and final volumes) were properly adhered to (unless otherwise noted herein).

**QC Types**

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike