

Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 05, 2015

Debbie Coakley  
Axis Group, Inc.  
PO Box 27656  
Albuquerque, NM 87125  
TEL:  
FAX

RE: DZGWTP

OrderNo.: 1412945

Dear Debbie Coakley:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/18/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1412945

Date Reported: 1/5/2015

CLIENT: Axis Group, Inc.

Client Sample ID: 1412181030

Project: DZGWTP

Collection Date: 12/18/2014 10:30:00 AM

Lab ID: 1412945-001

Matrix: SOIL

Received Date: 12/18/2014 12:45:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8260B: TCLP COMPOUNDS</b>							Analyst: DJF
Benzene	ND	0.50		ppm	10	12/29/2014 4:29:24 PM	16931
1,2-Dichloroethane (EDC)	ND	0.50		ppm	10	12/29/2014 4:29:24 PM	16931
2-Butanone	ND	200		ppm	10	12/29/2014 4:29:24 PM	16931
Carbon tetrachloride	ND	0.50		ppm	10	12/29/2014 4:29:24 PM	16931
Chlorobenzene	ND	100		ppm	10	12/29/2014 4:29:24 PM	16931
Chloroform	ND	6.0		ppm	10	12/29/2014 4:29:24 PM	16931
1,4-Dichlorobenzene	ND	7.5		ppm	10	12/29/2014 4:29:24 PM	16931
1,1-Dichloroethene	ND	0.70		ppm	10	12/29/2014 4:29:24 PM	16931
Tetrachloroethene (PCE)	ND	0.70		ppm	10	12/29/2014 4:29:24 PM	16931
Trichloroethene (TCE)	ND	0.50		ppm	10	12/29/2014 4:29:24 PM	16931
Vinyl chloride	ND	0.20		ppm	10	12/29/2014 4:29:24 PM	16931
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%REC	10	12/29/2014 4:29:24 PM	16931
Surr: 4-Bromofluorobenzene	86.0	70-130		%REC	10	12/29/2014 4:29:24 PM	16931
Surr: Dibromofluoromethane	83.8	70-130		%REC	10	12/29/2014 4:29:24 PM	16931
Surr: Toluene-d8	95.0	70-130		%REC	10	12/29/2014 4:29:24 PM	16931

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1412945

05-Jan-15

**Client:** Axis Group, Inc.

**Project:** DZGWTP

Sample ID	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: TCLP Compounds</b>							
Client ID: <b>PBS</b>	Batch ID: <b>16931</b>		RunNo: <b>23378</b>							
Prep Date: <b>12/19/2014</b>	Analysis Date: <b>12/29/2014</b>		SeqNo: <b>691046</b>		Units: <b>ppm</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
2-Butanone	ND	20								
Carbon tetrachloride	ND	0.050								
Chlorobenzene	ND	10								
Chloroform	ND	0.60								
1,4-Dichlorobenzene	ND	0.75								
1,1-Dichloroethene	ND	0.070								
Tetrachloroethene (PCE)	ND	0.070								
Trichloroethene (TCE)	ND	0.050								
Vinyl chloride	ND	0.020								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.5	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.0	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.46		0.5000		91.1	70	130			

Sample ID	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: TCLP Compounds</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>16931</b>		RunNo: <b>23378</b>							
Prep Date: <b>12/19/2014</b>	Analysis Date: <b>12/29/2014</b>		SeqNo: <b>691047</b>		Units: <b>ppm</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.050	1.000	0	90.6	70	130			
Chlorobenzene	ND	10	1.000	0	108	70	130			
1,1-Dichloroethene	1.1	0.070	1.000	0	105	60.5	160			
Trichloroethene (TCE)	0.90	0.050	1.000	0	89.6	58.8	139			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.0	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		87.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.45		0.5000		89.8	70	130			

**Qualifiers:**


- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: **Axis Group Inc**

Work Order Number: **1412945**

RcptNo: **1**

Received by/date: 

**12/18/14**

Logged By: **Ashley Gallegos**

**12/18/2014 12:45:00 PM**



Completed By: **Ashley Gallegos**

**12/18/2014 4:00:08 PM**



Reviewed By: **CS**

**12/19/14**

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Client

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No  # of preserved bottles checked for pH: (**<2 or >12 unless noted**)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No  Adjusted?
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No  Checked by:
- (If no, notify customer for authorization.)

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	17.6	Good	Not Present			

# Chain-of-Custody Record

Turn-Around Time:

Client: Axis Group Inc

Standard  Rush

Project Name:

DZGWT

Mailing Address: P.O. Box 27656

Project #:

Phone #: 505-247-3919

Email or Fax #: 247-3927

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other

EDD (Type)

Project Manager:

Debbie Coakley

Sampler:

On Ice:  Yes  No

Sample Temperature:

17.4

Date Time Matrix Sample Request ID

Container Type and #

HEAL No.

1-18-11 1030 Mud 1412181030

802JAr/2

1412945 -D01

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCB's

8260B (VOA) TCLP

8270 (Semi-VOA)

Air Bubbles (Y or N)

## Analysis Request

Remarks:

Received by: [Signature] Date: 12/18/14 Time: 1245

Relinquished by: [Signature] Date: 12/18/14 Time: 1245

Date: 1/18/11 Time: 1030

Received by: [Signature] Date: 12/18/14 Time: 1245