ENTERED

6137 Edith Blvd. NE
Albuquerque, NM 87107
505-349-5220

Event Report and Data
Roll-Off Bin Fire / Sprinkler Water Runoff
6133 Edith Blvd, NE
Albuquerque, NM 87107

Event Date(s): 03/29/16
Report Date: 05/11/16
Site Contact: Jeff Smith

Background

On March 29th, 2016, a fire occurred in a roll-off bin partially loaded with empty paint containers from Household Hazardous Waste collection activities at the Advanced Chemical Treatment (ACT) facility in Albuquerque, NM. The fire was extinguished by the foam based sprinkler system. The fire sprinkler system ran water for approximately six and a half hours, which created a significant run-off of water that potentially could transport paint residues to runoff collection areas at the ACT facility.

Scope of Response Activities

- Turn off sprinkler system to stop flow of water.
- Notify local fire department regulatory agencies of the event.
- Collect, characterize and perform proper disposal of standing water throughout the containment areas of the facility.
- Determine if chemical residues from the roll-off had impacted runoff water in the collection ponds and other soils on the property.

Detailed Activities

March 29th, 2016

At 12:09 AM ACT was notified by the alarm monitoring company of a fire system monitoring fault due to low pressure in the downstream side of the dry pipe system. The fault was noted by the emergency contact and it was determined it would be dealt with during regular business hours as the alarm could have likely been due to an issue with the dry pipe pressure maintenance compressor. This problem has been known to occur in the past. The fault was interpreted as a system malfunction as the alarm monitoring company did not indicate the fault was due to a fire system flow alarm, which would indicate a fire emergency.

At 5:50 AM an ACT Driver notified the an ACT Project Manager that there was water flowing from the sprinkler system at the front dock area of the warehouse but no fire was observed and fire department was not on site. Notifications were made to respond to the water flow and to have the water to the system shut off. The water was shut off at around 6:30 AM. Upon further investigation, it was determined that a fire had actually taken place in the roll-off container and that it had caused the sprinkler system to activate and extinguish the fire.

At 8:15 AM, The ACT Branch Manager notified the Bernalillo County Fire Department of the fire event and requested response to observe the scene of the incident and report. The fire department arrived on scene at 8:21 AM and confirmed there was no longer any hazard from the fire. The fire department left the scene as soon it was determined no fire response was necessary.

It was determined that the water was most likely flowing from the sprinkler system from about 12:02am to 6:30am causing a substantial flood at the ACTreatment facility. Water accumulated on the front dock and over flowed to the two runoff retention ponds on the west side of the ACTreatment Facility. It is estimated that about 270,000 gallons of water was released from the sprinkler system. The water from the roll-off bin, the secondary containment sumps and the warehouse area was collected using vacuum trucks. The water was stored on the trucks for characterization and disposal.

At 2:30 PM ACTreatment called the New Mexico Environment Department (NMED-HWB) 24-hour emergency response number at (505) 827-9329 on 3/29/16 at approximately 2:30 PM and could not get through. A second attempt was made to contact the NMED through the same line at 3:30 PM and a message was left.

March 30th, 2016

A third call to the New Mexico 24-hour emergency response number at (505) 827-9329 was made on March 30th at around 10:00 AM with no answer.

April 8th, 2016

Written notification of the event was submitted to the NMED-HWB.

April 14th, 2016

Janine Kraemer of NMED-HWB contacted ACT to set up an appointment for a site visit and discussion of the events that happened on March 29th, and to determine further actions.

April 20th, 2016

Janine Kraemer of NMED-HWB visited the site and met with ACT management. The site visit included visual inspection of the site, questions and answers and a written request for information regarding the event and response activities.

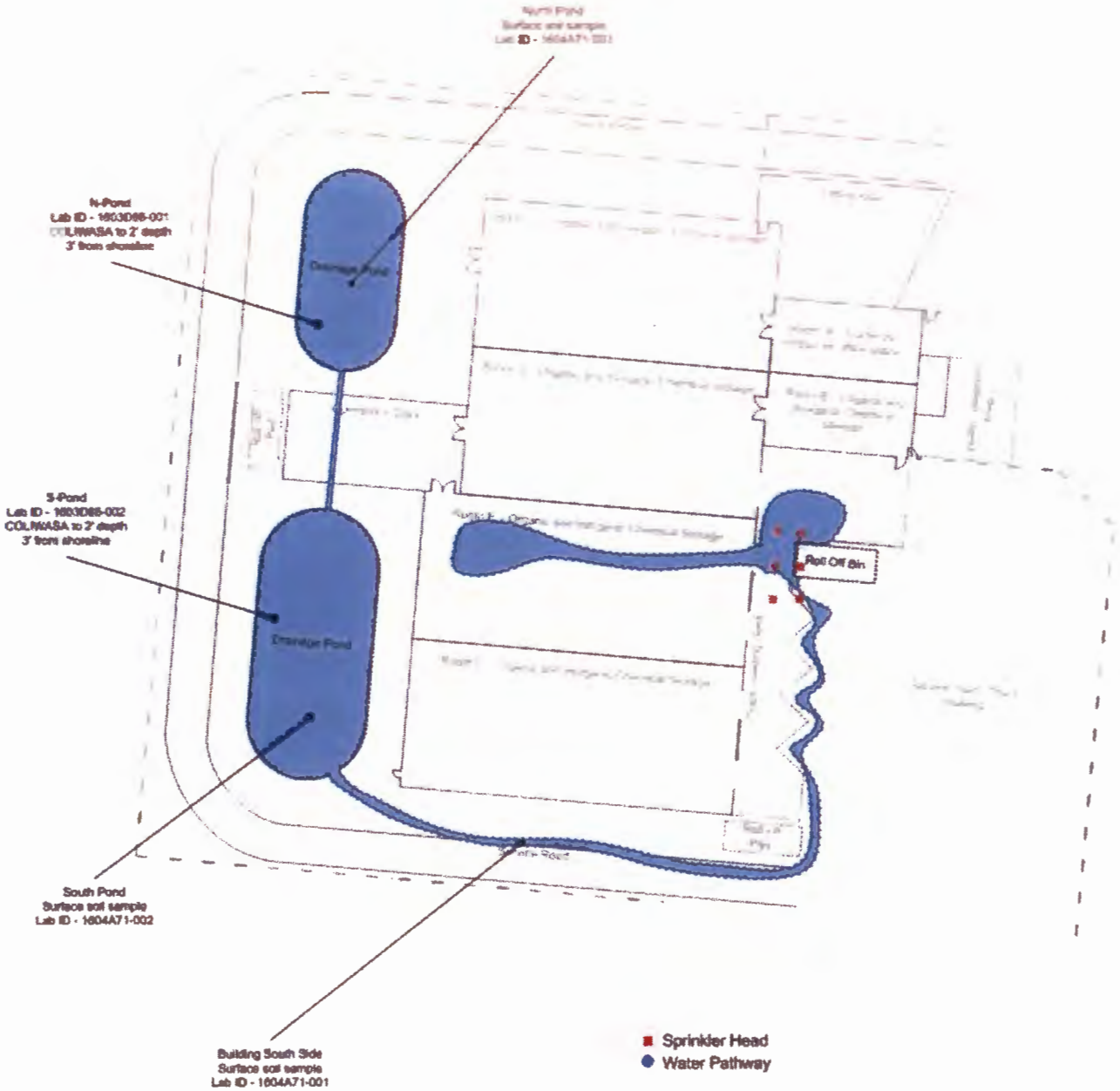
April 28th, 2016

ACT provided a response to the written request for information. Janine Kraemer of NMED-HWB responded with additional questions.

May 3rd, 2016

ACT responded with additional information that was requested.

Water Runoff Diagram and Sample Locations



Pond Screening Sample Analysis Results

Sample Date	Location	Sample Name	Lab ID	Analysis Method	Result		NMWQCC Standard
03/29/2016	North Drainage Pond	N-Pond	1603D88-001	7470 Mercury 6010B Metals 8015 DRO/MRO/GRO 8270 Semi-volatiles 8260 Volatiles	Barium Lead DRO Napthalene	0.11 mg/L 0.12 /L 1.0 mg/L 3.0 ug/L	1.0 mg/L 0.05 mg/L n/a 0.03 mg/L
03/29/2016	South Drainage Pond	S-Pond	1603D88-002	7470 Mercury 6010B Metals 8015 DRO/MRO/GRO 8270 Semi-volatiles 8260 Volatiles	Barium Lead DRO Naphthalene Acetone 2-Butanone	0.091 mg/L 0.0070 mg/L 1.0 mg/L 2.7 ug/L 34 ug/L 13 ug/L	1.0 mg/L 0.05 mg/L n/a 0.03 mg/L n/a n/a

Soil Sample Analysis Results

Sample Date	Sample Name	Lab ID	Analyte of Concern	Result (mg/Kg)	Residentiol Soil (mg/kg)	Industrial/ Occupotional Soil (mg/kg)	Groundwater Protection Risk-based SSL for a DAF of 20 (mg/kg)	Standard
	Building South Side	1604A71-001	Barium	140	15600	255000	2700	Table A-1: NMED Soil Screening Levels - July 2015
			Chromium (Tot.)	7.6	96.6	505	201000	
			Lead	12	400	800	n/a	
	South Pond	1604A71-002	Barium	150	15600	255000	2700	
			Chromium (Tot.)	8	96.6	505	201000	
			Lead	14	400	800	n/a	
	North Pond	1604A71-003	Barium	150	15600	255000	2700	
			Cadmium	0.86	70.5	1110	9.39	
			Chromium (Tot.)	8	96.6	505	201000	
			Lead	14	400	800	n/a	

Waste Managed as a Result of the Event

Waste Type	Amount	Manifest Number	Disposal Facility	Comments
Fire Sprinkler Water	37900 lbs. (Approx. 4500 Gallons)	007760837FLE	Clean Harbors Environmental Services Aragonite, UT	The fire sprinkler water was consolidated from two tank trucks to one load. The waste was characterized as Hazardous Waste (D022, F002, F003)

Waste Managed Screening Sample Analysis

Sample Date	Location	Sample Name	Lab ID	Analysis Method	Analyte	Result	Standards	
03/30/2016	Tank Trailer T1077	T1077-1	1603E30-001	7470 Mercury	Mercury	0.00022 mg/L	0.2 mg/L	Toxicity
				6010B Metals	Barium	0.083 mg/L	100 mg/L	Toxicity
				8015 DRO/MRO/GRO	Cadmium	0.0028 mg/L	1.0 mg/L	Toxicity
				8270 Semi-volatiles	Lead	0.0076 mg/L	5.0 mg/L	Toxicity
				8260 Volatiles	DRO	5.8 mg/L	n/a	n/a
					Acetone	120 mg/L	160 mg/L	NWW UTS (F001–F005)
					2-Butanone	22 mg/L	33 mg/L	NWW UTS (F001–F005)
					Methylene Chloride	3.5 mg/L	30 mg/L	NWW UTS (F001–F005)
03/30/2016	Tank Truck T96	T96	1603E30-002	7470 Mercury	Mercury	0.011 mg/L	0.2 mg/L	Toxicity
				6010B Metals	Barium	0.091 mg/L	100 mg/L	Toxicity
				8015 DRO/MRO/GRO	Cadmium	0.014 mg/l	1.0 mg/L	Toxicity
				8270 Semi-volatiles	Chromium	0.012 mg/L	5.0 mg/L	Toxicity
				8260 Volatiles	Lead	0.055 mg/L	5.0 mg/L	Toxicity
					DRO	43 mg/L	n/a	n/a
					GRO	110 mg/L	n/a	n/a
					Di-n-butyl phthalate	160 ug/L	n/a	n/a
					Benzene	280 ug/L	0.5 mg/L	Toxicity
					Toluene	9200 ug/L	10 mg/L	NWW UTS (F001–F005)
					Ethylbenzene	1100 ug/L	10 mg/L	NWW UTS (F001–F005)
					1,2,4-Trimethylbenzene	250 ug/L	n/a	n/a
					1,3,5-Trimethylbenzene	350 ug/L	n/a	n/a
					1,2-Dichloroethane	1100 ug/L	n/a	n/a
					Acetone	460000 ug/L	160 mg/L	NWW UTS (F001–F005)
					Bromobenzene	900 ug/L	n/a	n/a
					Chloroform	7400 ug/L	6.0 mg/L	Toxicity
					Methylene Chloride	210000 ug/L	30 mg/L	NWW UTS (F001–F005)
					Xylenes	5100 ug/L	30 mg/L	NWW UTS (F001–F005)

Findings / Corrective Actions

Finding	Corrective Action	Date Completed
Slow self-oxidation of organic chemical residues in the roll-off bin most likely caused the fire.	Provide additional training and supervision for increased oversight of HHW chemical bulking and container disposal activities.	05/02/2016
	Review paint bulking process and determine if automated paint processing systems can increase safety and reduce risk of fire.	Ongoing
The notification process for alarm monitoring did not provide sufficient information to indicate the emergency situation.	The fire alarm notification system was re-programmed to provide accurate notification information to the emergency contact. The system was tested by ACT and the results showed the system notified properly.	04/12/2016

Photographs

03/29/2016 7:19 am – a view of the roll off bin that had been on fire

03/29/2016 7:19 am – an alternate view of the roll off bin that had been on fire

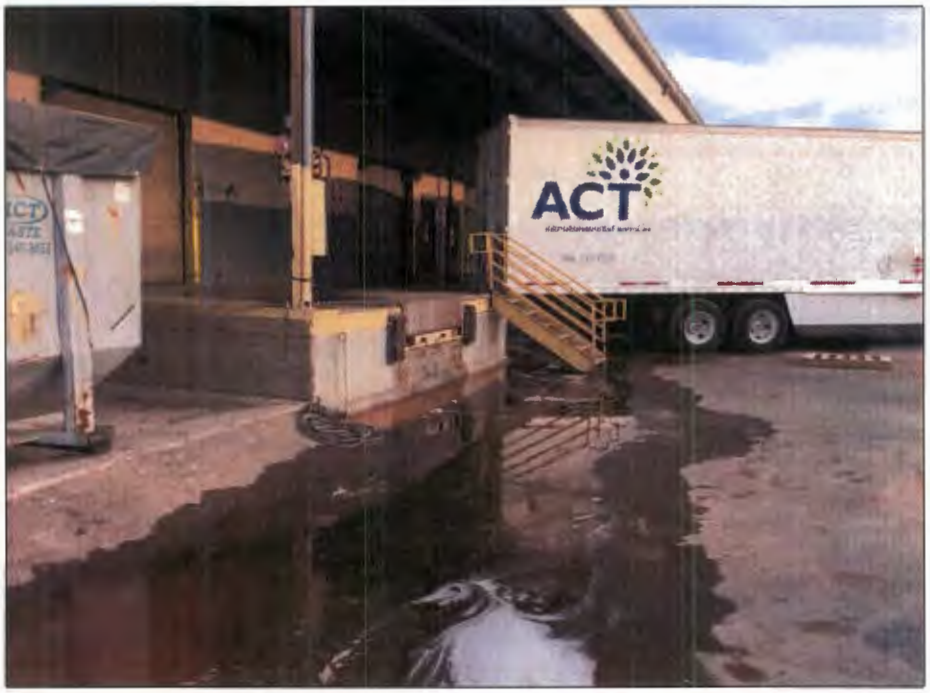
Photographs (contd.)

03/29/2016 7:13 am – a view of the sprinkler heads that were activated

03/29/2016 7:20 am – a view of the "front dock" area and water

Photographs (contd.)

03/29/2016 7:13 am – a view of the roll off half full of sprinkler water



03/29/2016 7:18 am – the water pathway to the south along the east side of the warehouse

Photographs (contd.)

03/ 21/2016 7:15 am – a view of the south pond containing sprinkler water

03/ 21/2016 7:15 am – an alternate view of the south pond containing sprinkler water

Photographs (contd.)

03/ 21/2016 7:15 am – a close view of the south pond containing sprinkler water

03/ 21/2016 7:16 am – a view of the north pond containing sprinkler water

Attachment A – Pond Screening Sample Analytical Report
(full report with QC Data available upon request)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 05, 2016

Bill Littleton
Advanced Chemical Transport Alb
6137 Edith Blvd NE
Albuquerque, NM 87107
TEL: (719) 466-9328
FAX

RE: HHW Bin Water

OrderNo.: 1603D88

Dear Bill Littleton:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/29/2016 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 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-001 Matrix: AQUEOUS

Client Sample ID: N-Pond
Collection Date: 3/29/2016 2:47:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst:	pmf
Mercury	ND	0.00020		mg/L	1	3/31/2016 12:17:51 PM	24537
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	MED
Arsenic	ND	0.020		mg/L	1	3/31/2016 8:49:21 AM	24526
Barium	0.11	0.020		mg/L	1	3/31/2016 8:49:21 AM	24526
Cadmium	ND	0.0020		mg/L	1	3/31/2016 8:49:21 AM	24526
Chromium	ND	0.0060		mg/L	1	3/31/2016 8:49:21 AM	24526
Lead	0.012	0.0050		mg/L	1	3/31/2016 8:49:21 AM	24526
Selenium	ND	0.050		mg/L	1	3/31/2016 8:49:21 AM	24526
Silver	ND	0.0050		mg/L	1	3/31/2016 8:49:21 AM	24526
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	KJH
Diesel Range Organics (DRO)	1.0	1.0		mg/L	1	3/30/2016 11:11:46 AM	24511
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/30/2016 11:11:46 AM	24511
Surr: DNOP	109	70-141		%Rec	1	3/30/2016 11:11:46 AM	24511
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2016 9:15:06 AM	A33166
Surr: BFB	87.8	49.5-130		%Rec	1	3/30/2016 9:15:06 AM	A33166
EPA METHOD 8270C: SEMIVOLATILES						Analyst:	DAM
Acenaphthene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Acenaphthylene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Aniline	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Anthracene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Azobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benz(a)anthracene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzo(a)pyrene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzo(b)fluoranthene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzo(k)fluoranthene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzoic acid	ND	20		µg/L	1	3/31/2016 12:22:21 PM	24544
Benzyl alcohol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Butyl benzyl phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Carbazole	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D83-001 **Matrix:** AQUEOUS

Client Sample ID: N-Pond
Collection Date: 3/29/2016 2:47:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Chloroaniline	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Chloronaphthalene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Chlorophenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Chrysene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Di-n-butyl phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Di-n-octyl phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Dibenzofuran	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
1,2-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
1,3-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
1,4-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Diethyl phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Dimethyl phthalate	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4-Dichlorophenol	ND	20		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4-Dimethylphenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4-Dinitrophenol	ND	20		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4-Dinitrotoluene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2,6-Dinitrotoluene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Fluoranthene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Fluorene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Hexachlorobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Hexachlorobutadiene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Hexachloroethane	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Isophorone	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
1-Methylnaphthalene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Methylnaphthalene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Methylphenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
3+4-Methylphenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
N-Nitrosodimethylamine	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Naphthalene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
3-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544

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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

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Project: HHW Bin Water
Lab ID: 1603D88-001 Matrix: AQUEOUS

Client Sample ID: N-Pond
Collection Date: 3/29/2016 2:47:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Nitrobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2-Nitrophenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
4-Nitrophenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Pentachlorophenol	ND	20		µg/L	1	3/31/2016 12:22:21 PM	24544
Phenanthrene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Phenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Pyrene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Pyridine	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/31/2016 12:22:21 PM	24544
Surr: 2-Fluorophenol	37.0	15-123		%Rec	1	3/31/2016 12:22:21 PM	24544
Surr: Phenol-d5	31.7	4.13-124		%Rec	1	3/31/2016 12:22:21 PM	24544
Surr: 2,4,6-Tribromophenol	75.1	18.4-134		%Rec	1	3/31/2016 12:22:21 PM	24544
Surr: Nitrobenzene-d5	64.6	28.8-134		%Rec	1	3/31/2016 12:22:21 PM	24544
Surr: 2-Fluorobiphenyl	64.1	35.9-125		%Rec	1	3/31/2016 12:22:21 PM	24544
Surr: 4-Terphenyl-d14	52.6	15-146		%Rec	1	3/31/2016 12:22:21 PM	24544
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Toluene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Ethylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Naphthalene	3.0	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Acetone	32	10		µg/L	1	3/30/2016 10:39:55 AM	R33163
Bromobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Bromodichloromethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Bromoform	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Bromomethane	ND	3.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
2-Butanone	ND	10		µg/L	1	3/30/2016 10:39:55 AM	R33163
Carbon disulfide	ND	10		µg/L	1	3/30/2016 10:39:55 AM	R33163
Carbon Tetrachloride	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Chlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-001 **Matrix:** AQUEOUS

Client Sample ID: N-Pond
Collection Date: 3/29/2016 2:47:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Chloroethane	ND	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Chloroform	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Chloromethane	ND	3.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
2-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
4-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
cis-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Dibromochloromethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Dibromomethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1-Dichloroethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1-Dichloroethene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,3-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
2,2-Dichloropropane	ND	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Hexachlorobutadiene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
2-Hexanone	ND	10		µg/L	1	3/30/2016 10:39:55 AM	R33163
Isopropylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
4-Isopropyltoluene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
4-Methyl-2-pentanone	ND	10		µg/L	1	3/30/2016 10:39:55 AM	R33163
Methylene Chloride	ND	3.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
n-Butylbenzene	ND	3.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
n-Propylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
sec-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Styrene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
tert-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
trans-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163

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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Client Sample ID: N-Pond
Project: HHW Bin Water
Collection Date: 3/29/2016 2:47:00 PM
Lab ID: 1603D88-001
Matrix: AQUEOUS
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Trichlorofluoromethane	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Vinyl chloride	ND	1.0		µg/L	1	3/30/2016 10:39:55 AM	R33163
Xylenes, Total	ND	1.5		µg/L	1	3/30/2016 10:39:55 AM	R33163
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	3/30/2016 10:39:55 AM	R33163
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	3/30/2016 10:39:55 AM	R33163
Surr: Dibromofluoromethane	99.7	70-130		%Rec	1	3/30/2016 10:39:55 AM	R33163
Surr: Toluene-d8	95.6	70-130		%Rec	1	3/30/2016 10:39:55 AM	R33163

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Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-002 Matrix: AQUEOUS

Client Sample ID: S-Pond
Collection Date: 3/29/2016 3:00:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst:	pmf
Mercury	ND	0.00020		mg/L	1	3/31/2016 12:23:58 PM	24537
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	MED
Arsenic	ND	0.020		mg/L	1	3/31/2016 8:50:40 AM	24526
Barium	0.091	0.020		mg/L	1	3/31/2016 8:50:40 AM	24526
Cadmium	ND	0.0020		mg/L	1	3/31/2016 8:50:40 AM	24526
Chromium	ND	0.0060		mg/L	1	3/31/2016 8:50:40 AM	24526
Lead	0.0070	0.0050		mg/L	1	3/31/2016 8:50:40 AM	24526
Selenium	ND	0.050		mg/L	1	3/31/2016 8:50:40 AM	24526
Silver	ND	0.0050		mg/L	1	3/31/2016 8:50:40 AM	24526
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	KJH
Diesel Range Organics (DRO)	1.0	1.0		mg/L	1	3/30/2016 11:33:18 AM	24511
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/30/2016 11:33:18 AM	24511
Surr: DNOP	120	70-141		%Rec	1	3/30/2016 11:33:18 AM	24511
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2016 9:38:04 AM	A33166
Surr: BFB	86.7	49.5-130		%Rec	1	3/30/2016 9:38:04 AM	A33166
EPA METHOD 8270C: SEMIVOLATILES						Analyst:	DAM
Acenaphthene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Acenaphthylene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Aniline	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Anthracene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Azobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benz(a)anthracene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzo(a)pyrene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzo(b)fluoranthene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzo(g,h,i)perylene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzo(k)fluoranthene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzoic acid	ND	20		µg/L	1	3/31/2016 12:51:53 PM	24544
Benzyl alcohol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Bis(2-chloroethyl)ether	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
4-Bromophenyl phenyl ether	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Butyl benzyl phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Carbazole	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
4-Chloro-3-methylphenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544

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Qualifiers:

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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Client Sample ID: S-Pond
Project: HHW Bin Water
Collection Date: 3/29/2016 3:00:00 PM
Lab ID: 1603D88-002
Matrix: AQUEOUS
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Chloroaniline	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Chloronaphthalene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Chlorophenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Chrysene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Di-n-butyl phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Di-n-octyl phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Dibenz(a,h)anthracene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Dibenzofuran	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
1,2-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
1,3-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
1,4-Dichlorobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
3,3'-Dichlorobenzidine	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Diethyl phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Dimethyl phthalate	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4-Dichlorophenol	ND	20		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4-Dimethylphenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4-Dinitrophenol	ND	20		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4-Dinitrotoluene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2,6-Dinitrotoluene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Fluoranthene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Fluorene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Hexachlorobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Hexachlorobutadiene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Hexachlorocyclopentadiene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Hexachloroethane	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Isophorone	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
1-Methylnaphthalene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Methylnaphthalene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Methylphenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
3+4-Methylphenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
N-Nitrosodimethylamine	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
N-Nitrosodiphenylamine	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Naphthalene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
3-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544

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Qualifiers:

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-002 **Matrix:** AQUEOUS

Client Sample ID: S-Pond
Collection Date: 3/29/2016 3:00:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Nitroaniline	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Nitrobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2-Nitrophenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
4-Nitrophenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Pentachlorophenol	ND	20		µg/L	1	3/31/2016 12:51:53 PM	24544
Phenanthrene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Phenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Pyrene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Pyridine	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
1,2,4-Trichlorobenzene	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4,5-Trichlorophenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
2,4,6-Trichlorophenol	ND	10		µg/L	1	3/31/2016 12:51:53 PM	24544
Surr: 2-Fluorophenol	28.3	15-123		%Rec	1	3/31/2016 12:51:53 PM	24544
Surr: Phenol-d5	25.0	4.13-124		%Rec	1	3/31/2016 12:51:53 PM	24544
Surr: 2,4,6-Tribromophenol	63.3	18.4-134		%Rec	1	3/31/2016 12:51:53 PM	24544
Surr: Nitrobenzene-d5	56.0	28.8-134		%Rec	1	3/31/2016 12:51:53 PM	24544
Surr: 2-Fluorobiphenyl	54.0	35.9-125		%Rec	1	3/31/2016 12:51:53 PM	24544
Surr: 4-Terphenyl-d14	42.6	15-146		%Rec	1	3/31/2016 12:51:53 PM	24544
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Toluene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Ethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Naphthalene	2.7	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Acetone	34	10		µg/L	1	3/30/2016 11:08:06 AM	R33163
Bromobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Bromodichloromethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Bromoform	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Bromomethane	ND	3.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
2-Butanone	13	10		µg/L	1	3/30/2016 11:08:06 AM	R33163
Carbon disulfide	ND	10		µg/L	1	3/30/2016 11:08:06 AM	R33163
Carbon Tetrachloride	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Chlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163

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
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H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Client Sample ID: S-Pond
Project: HHW Bin Water
Collection Date: 3/29/2016 3:00:00 PM
Lab ID: 1603D88-002
Matrix: AQUEOUS
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: DJF	
Chloroethane	ND	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Chloroform	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Chloromethane	ND	3.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
2-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
4-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
cis-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Dibromochloromethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Dibromomethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1-Dichloroethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1-Dichloroethene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,3-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
2,2-Dichloropropane	ND	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Hexachlorobutadiene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
2-Hexanone	ND	10		µg/L	1	3/30/2016 11:08:06 AM	R33163
Isopropylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
4-Isopropyltoluene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
4-Methyl-2-pentanone	ND	10		µg/L	1	3/30/2016 11:08:06 AM	R33163
Methylene Chloride	ND	3.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
n-Butylbenzene	ND	3.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
n-Propylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
sec-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Styrene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
tert-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
trans-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-002 **Matrix:** AQUEOUS

Client Sample ID: S-Pond
Collection Date: 3/29/2016 3:00:00 PM
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Trichlorofluoromethane	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Vinyl chloride	ND	1.0		µg/L	1	3/30/2016 11:08:06 AM	R33163
Xylenes, Total	ND	1.5		µg/L	1	3/30/2016 11:08:06 AM	R33163
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%Rec	1	3/30/2016 11:08:06 AM	R33163
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	3/30/2016 11:08:06 AM	R33163
Surr: Dibromofluoromethane	98.0	70-130		%Rec	1	3/30/2016 11:08:06 AM	R33163
Surr: Toluene-d8	96.3	70-130		%Rec	1	3/30/2016 11:08:06 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-003 **Matrix:** TRIP BLANK

Client Sample ID: Trip Blank
Collection Date:
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/30/2016 10:02:36 AM	A33166
Surr: BFB	85.9	49.5-130		%Rec	1	3/30/2016 10:02:36 AM	A33166
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Toluene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Ethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Naphthalene	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
2-Methylnaphthalene	ND	4.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Acetone	ND	10		µg/L	1	3/30/2016 11:36:19 AM	R33163
Bromobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Bromodichloromethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Bromoform	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Bromomethane	ND	3.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
2-Butanone	ND	10		µg/L	1	3/30/2016 11:36:19 AM	R33163
Carbon disulfide	ND	10		µg/L	1	3/30/2016 11:36:19 AM	R33163
Carbon Tetrachloride	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Chlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Chloroethane	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Chloroform	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Chloromethane	ND	3.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
2-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
4-Chlorotoluene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
cis-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Dibromochloromethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Dibromomethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1-Dichloroethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1-Dichloroethene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603D88-003 **Matrix:** TRIP BLANK

Client Sample ID: Trip Blank
Collection Date:
Received Date: 3/29/2016 3:15:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,2-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,3-Dichloropropane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
2,2-Dichloropropane	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Hexachlorobutadiene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
2-Hexanone	ND	10		µg/L	1	3/30/2016 11:36:19 AM	R33163
Isopropylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
4-Isopropyltoluene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
4-Methyl-2-pentanone	ND	10		µg/L	1	3/30/2016 11:36:19 AM	R33163
Methylene Chloride	ND	3.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
n-Butylbenzene	ND	3.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
n-Propylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
sec-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Styrene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
tert-Butylbenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
trans-1,2-DCE	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Trichlorofluoromethane	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Vinyl chloride	ND	1.0		µg/L	1	3/30/2016 11:36:19 AM	R33163
Xylenes, Total	ND	1.5		µg/L	1	3/30/2016 11:36:19 AM	R33163
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	3/30/2016 11:36:19 AM	R33163
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	3/30/2016 11:36:19 AM	R33163
Surr: Dibromofluoromethane	101	70-130		%Rec	1	3/30/2016 11:36:19 AM	R33163
Surr: Toluene-d8	96.2	70-130		%Rec	1	3/30/2016 11:36:19 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Advance Chemical Transport

Mailing Address: 6137 Edith N.E. - Albuquerque, NM 87107

Phone #: 505-349-5220

Email or Fax#: wlittleton@advancemail.com

QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: ☐ Standard ☑ Rush 24 hr TAT (3 DAY on Receipt of Test)

Project Name: HHW Bin Water

Project #:

Project Manager: Bill Littleton

Sampler: Bill Littleton

On Ice: ☑ Yes ☐ No

Sample Temperature: 11.5-0.5=11.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	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$_3$,NO$_2$,PO$_4$,SO$_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/29	10					1603D88																
3/29	1447	Aq.	N-Pond	6x VOA	HCL	-001			✓				✓			✓	✓					
				1x500mL	HNO3				✓				✓			✓	✓					
				1x250mL					✓				✓			✓	✓					
				1x1L					✓				✓			✓	✓					
3/29	1500	Aq.	S-Pond	6x VOA	HCL	-002			✓				✓			✓	✓					
				1x500mL	HNO3				✓				✓			✓	✓					
				1x250mL					✓				✓			✓	✓					
				1x1L					✓				✓			✓	✓					

Date	Time	Relinquished by	Received by	Date	Time
3/29	1503	[signature]	[signature]	3/29	15:03
3/29	15:15	[signature]	[signature]	03/29/16	1515

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Attachment B – Soil Screening Sample Analytical Report
(full report with QC Data available upon request)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 04, 2016

Jared Kinsey
Advanced Chemical Transport Alb
6137 Edith Blvd NE
Albuquerque, NM 87107
TEL: (719) 466-9328
FAX

RE: ACT ER w/Fire Bin

OrderNo.: 1604A71

Dear Jared Kinsey:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/22/2016 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 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-001 Matrix: SOIL

Client Sample ID: Building South Side
Collection Date: 4/21/2016 10:45:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: pmf
Mercury	ND	0.033		mg/Kg	1	4/28/2016 2:28:40 PM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	5.0		mg/Kg	2	4/28/2016 1:26:20 PM
Barium	140	0.20		mg/Kg	2	4/28/2016 1:26:20 PM
Cadmium	ND	0.20		mg/Kg	2	4/28/2016 1:26:20 PM
Chromium	7.8	0.60		mg/Kg	2	4/28/2016 1:26:20 PM
Lead	12	0.50		mg/Kg	2	4/28/2016 1:26:20 PM
Selenium	ND	5.0		mg/Kg	2	4/29/2016 10:18:06 AM
Silver	ND	0.50		mg/Kg	2	4/28/2016 1:26:20 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Acenaphthene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Acenaphthylene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Aniline	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Anthracene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Azobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benz(a)anthracene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzo(a)pyrene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzo(b)fluoranthene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzo(g,h,i)perylene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzo(k)fluoranthene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzoic acid	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
Benzyl alcohol	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Bis(2-chloroethoxy)methane	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Bis(2-chloroethyl)ether	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Bis(2-chloroisopropyl)ether	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Bis(2-ethylhexyl)phthalate	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Bromophenyl phenyl ether	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Butyl benzyl phthalate	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Carbazole	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Chloro-3-methylphenol	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Chloroaniline	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Chloronaphthalene	ND	5.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Chlorophenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Chlorophenyl phenyl ether	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Chrysene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Di-n-butyl phthalate	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Di-n-octyl phthalate	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Dibenz(a,h)anthracene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-001 **Matrix:** SOIL

Client Sample ID: Building South Side
Collection Date: 4/21/2016 10:45:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Dibenzofuran	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
1,2-Dichlorobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
1,3-Dichlorobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
1,4-Dichlorobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
3,3'-Dichlorobenzidine	ND	5.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Diethyl phthalate	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Dimethyl phthalate	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2,4-Dichlorophenol	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2,4-Dimethylphenol	ND	6.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
4,6-Dinitro-2-methylphenol	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2,4-Dinitrophenol	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
2,4-Dinitrotoluene	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
2,6-Dinitrotoluene	ND	10	D	mg/Kg	10	4/28/2016 12:45:04 PM
Fluoranthene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Fluorene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Hexachlorobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Hexachlorobutadiene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Hexachlorocyclopentadiene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Hexachloroethane	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Indeno(1,2,3-cd)pyrene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Isophorone	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
1-Methylnaphthalene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Methylnaphthalene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Methylphenol	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
3+4-Methylphenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
N-Nitrosodi-n-propylamine	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
N-Nitrosodiphenylamine	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Naphthalene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Nitroaniline	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
3-Nitroaniline	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Nitroaniline	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Nitrobenzene	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
2-Nitrophenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
4-Nitrophenol	ND	5.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Pentachlorophenol	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Phenanthrene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Phenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Pyrene	ND	4.0	D	mg/Kg	10	4/28/2016 12:45:04 PM
Pyridine	ND	8.0	D	mg/Kg	10	4/28/2016 12:45:04 PM

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
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-001 **Matrix:** SOIL

Client Sample ID: Building South Side
Collection Date: 4/21/2016 10:45:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
1,2,4-Trichlorobenzene	ND	4.0	D	mg/Kg	10	4/28/2016 12:46:04 PM
2,4,5-Trichlorophenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:46:04 PM
2,4,6-Trichlorophenol	ND	4.0	D	mg/Kg	10	4/28/2016 12:46:04 PM
Surr: 2-Fluorophenol	0	28.3-102	SD	%Rec	10	4/28/2016 12:46:04 PM
Surr: Phenol-d5	0	35.7-103	SD	%Rec	10	4/28/2016 12:46:04 PM
Surr: 2,4,6-Tribromophenol	0	35.2-108	SD	%Rec	10	4/28/2016 12:46:04 PM
Surr: Nitrobenzene-d5	0	24-118	SD	%Rec	10	4/28/2016 12:46:04 PM
Surr: 2-Fluorobiphenyl	0	35.4-111	SD	%Rec	10	4/28/2016 12:46:04 PM
Surr: 4-Terphenyl-d14	0	15-91.7	SD	%Rec	10	4/28/2016 12:46:04 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/27/2016 1:21:50 PM
Toluene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Naphthalene	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 1:21:50 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 1:21:50 PM
Acetone	ND	0.75		mg/Kg	1	4/27/2016 1:21:50 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Bromoform	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Bromomethane	ND	0.15		mg/Kg	1	4/27/2016 1:21:50 PM
2-Butanone	ND	0.50		mg/Kg	1	4/27/2016 1:21:50 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/27/2016 1:21:50 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Chloroethane	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
Chloroform	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Chloromethane	ND	0.15		mg/Kg	1	4/27/2016 1:21:50 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-001 **Matrix:** SOIL

Client Sample ID: Building South Side
Collection Date: 4/21/2016 10:45:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromomethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/27/2016 1:21:50 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/27/2016 1:21:50 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/27/2016 1:21:50 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/27/2016 1:21:50 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Styrene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/27/2016 1:21:50 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/27/2016 1:21:50 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	4/27/2016 1:21:50 PM
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	4/27/2016 1:21:50 PM
Surr: Toluene-d8	99.6	70-130		%Rec	1	4/27/2016 1:21:50 PM

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-001 **Matrix:** SOIL

Client Sample ID: Building South Side
Collection Date: 4/21/2016 10:45:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	4/27/2016 1:21:50 PM

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-002 Matrix: SOIL

Client Sample ID: South Pond
Collection Date: 4/21/2016 10:50:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: pmf
Mercury	ND	0.032		mg/Kg	1	4/28/2016 2:33:58 PM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	12		mg/Kg	5	4/28/2016 1:27:41 PM
Barium	150	0.49		mg/Kg	5	4/28/2016 1:27:41 PM
Cadmium	ND	0.49		mg/Kg	5	4/28/2016 1:27:41 PM
Chromium	8.0	1.5		mg/Kg	5	4/28/2016 1:27:41 PM
Lead	14	1.2		mg/Kg	5	4/28/2016 1:27:41 PM
Selenium	ND	12		mg/Kg	5	4/29/2016 10:19:21 AM
Silver	ND	1.2		mg/Kg	5	4/28/2016 1:27:41 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Acenaphthene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Acenaphthylene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Aniline	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Anthracene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Azobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benz(a)anthracene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzo(a)pyrene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzo(b)fluoranthene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzo(g,h,i)perylene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzo(k)fluoranthene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzoic acid	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
Benzyl alcohol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Bis(2-chloroethoxy)methane	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Bis(2-chloroethyl)ether	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Bis(2-chloroisopropyl)ether	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Bis(2-ethylhexyl)phthalate	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Bromophenyl phenyl ether	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Butyl benzyl phthalate	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Carbazole	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Chloro-3-methylphenol	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Chloroaniline	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Chloronaphthalene	ND	6.2	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Chlorophenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Chlorophenyl phenyl ether	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Chrysene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Di-n-butyl phthalate	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
Di-n-octyl phthalate	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
Dibenz(a,h)anthracene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM

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

Qualifiers:
- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-002 Matrix: SOIL

Client Sample ID: South Pond
Collection Date: 4/21/2016 10:50:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Dibenzofuran	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
1,2-Dichlorobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
1,3-Dichlorobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
1,4-Dichlorobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
3,3'-Dichlorobenzidine	ND	6.2	D	mg/Kg	1	4/28/2016 1:15:15 PM
Diethyl phthalate	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Dimethyl phthalate	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4-Dichlorophenol	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4-Dimethylphenol	ND	7.5	D	mg/Kg	1	4/28/2016 1:15:15 PM
4,6-Dinitro-2-methylphenol	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4-Dinitrophenol	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4-Dinitrotoluene	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,6-Dinitrotoluene	ND	12	D	mg/Kg	1	4/28/2016 1:15:15 PM
Fluoranthene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Fluorene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Hexachlorobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Hexachlorobutadiene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Hexachlorocyclopentadiene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Hexachloroethane	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Indeno(1,2,3-cd)pyrene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Isophorone	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
1-Methylnaphthalene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Methylnaphthalene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Methylphenol	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
3+4-Methylphenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
N-Nitrosodi-n-propylamine	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
N-Nitrosodiphenylamine	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Naphthalene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Nitroaniline	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
3-Nitroaniline	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Nitroaniline	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
Nitrobenzene	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
2-Nitrophenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
4-Nitrophenol	ND	6.2	D	mg/Kg	1	4/28/2016 1:15:15 PM
Pentachlorophenol	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM
Phenanthrene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Phenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Pyrene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Pyridine	ND	10	D	mg/Kg	1	4/28/2016 1:15:15 PM

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

Qualifiers:
- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-002 **Matrix:** SOIL

Client Sample ID: South Pond
Collection Date: 4/21/2016 10:50:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
1,2,4-Trichlorobenzene	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4,5-Trichlorophenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
2,4,6-Trichlorophenol	ND	5.0	D	mg/Kg	1	4/28/2016 1:15:15 PM
Surr: 2-Fluorophenol	0	28.3-102	SD	%Rec	1	4/28/2016 1:15:15 PM
Surr: Phenol-d5	0	35.7-103	SD	%Rec	1	4/28/2016 1:15:15 PM
Surr: 2,4,6-Tribromophenol	0	35.2-108	SD	%Rec	1	4/28/2016 1:15:15 PM
Surr: Nitrobenzene-d5	0	24-118	SD	%Rec	1	4/28/2016 1:15:15 PM
Surr: 2-Fluorobiphenyl	0	35.4-111	SD	%Rec	1	4/28/2016 1:15:15 PM
Surr: 4-Terphenyl-d14	0	15-91.7	SD	%Rec	1	4/28/2016 1:15:15 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/27/2016 1:50:02 PM
Toluene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Naphthalene	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 1:50:02 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 1:50:02 PM
Acetone	ND	0.75		mg/Kg	1	4/27/2016 1:50:02 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Bromoform	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Bromomethane	ND	0.15		mg/Kg	1	4/27/2016 1:50:02 PM
2-Butanone	ND	0.50		mg/Kg	1	4/27/2016 1:50:02 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/27/2016 1:50:02 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Chloroethane	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
Chloroform	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Chloromethane	ND	0.15		mg/Kg	1	4/27/2016 1:50:02 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-002 **Matrix:** SOIL

Client Sample ID: South Pond
Collection Date: 4/21/2016 10:50:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromomethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/27/2016 1:50:02 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/27/2016 1:50:02 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/27/2016 1:50:02 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/27/2016 1:50:02 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Styrene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/27/2016 1:50:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/27/2016 1:50:02 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/27/2016 1:50:02 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	4/27/2016 1:50:02 PM
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/27/2016 1:50:02 PM

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-002 **Matrix:** SOIL

Client Sample ID: South Pond
Collection Date: 4/21/2016 10:50:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/27/2016 1:50:02 PM

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
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-003 **Matrix:** SOIL

Client Sample ID: North Pond
Collection Date: 4/21/2016 10:55:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: pmf
Mercury	0.082	0.033		mg/Kg	1	4/28/2016 2:35:45 PM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	12		mg/Kg	5	4/28/2016 1:29:06 PM
Barium	110	0.50		mg/Kg	5	4/28/2016 1:29:06 PM
Cadmium	0.86	0.50		mg/Kg	5	4/28/2016 1:29:06 PM
Chromium	13	1.5		mg/Kg	5	4/28/2016 1:29:06 PM
Lead	27	1.2		mg/Kg	5	4/28/2016 1:29:06 PM
Selenium	ND	12		mg/Kg	5	4/29/2016 10:24:22 AM
Silver	ND	1.2		mg/Kg	5	4/28/2016 1:29:06 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Acenaphthene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Acenaphthylene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Aniline	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Anthracene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Azobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benz(a)anthracene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzo(a)pyrene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzo(b)fluoranthene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzo(g,h,i)perylene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzo(k)fluoranthene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzoic acid	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
Benzyl alcohol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Bis(2-chloroethoxy)methane	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Bis(2-chloroethyl)ether	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Bis(2-chloroisopropyl)ether	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Bis(2-ethylhexyl)phthalate	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Bromophenyl phenyl ether	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Butyl benzyl phthalate	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Carbazole	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Chloro-3-methylphenol	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Chloroaniline	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Chloronaphthalene	ND	62	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Chlorophenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Chlorophenyl phenyl ether	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Chrysene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Di-n-butyl phthalate	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
Di-n-octyl phthalate	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
Dibenz(a,h)anthracene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-003 **Matrix:** SOIL

Client Sample ID: North Pond
Collection Date: 4/21/2016 10:55:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
Dibenzofuran	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
1,2-Dichlorobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
1,3-Dichlorobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
1,4-Dichlorobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
3,3'-Dichlorobenzidine	ND	62	D	mg/Kg	10	4/28/2016 1:45:19 PM
Diethyl phthalate	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Dimethyl phthalate	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4-Dichlorophenol	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4-Dimethylphenol	ND	75	D	mg/Kg	10	4/28/2016 1:45:19 PM
4,6-Dinitro-2-methylphenol	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4-Dinitrophenol	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4-Dinitrotoluene	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,6-Dinitrotoluene	ND	120	D	mg/Kg	10	4/28/2016 1:45:19 PM
Fluoranthene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Fluorene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Hexachlorobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Hexachlorobutadiene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Hexachlorocyclopentadiene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Hexachloroethane	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Indeno(1,2,3-cd)pyrene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Isophorone	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
1-Methylnaphthalene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Methylnaphthalene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Methylphenol	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
3+4-Methylphenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
N-Nitrosodi-n-propylamine	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
N-Nitrosodiphenylamine	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Naphthalene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Nitroaniline	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
3-Nitroaniline	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Nitroaniline	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
Nitrobenzene	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
2-Nitrophenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
4-Nitrophenol	ND	62	D	mg/Kg	10	4/28/2016 1:45:19 PM
Pentachlorophenol	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM
Phenanthrene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Phenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Pyrene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Pyridine	ND	99	D	mg/Kg	10	4/28/2016 1:45:19 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-003 **Matrix:** SOIL

Client Sample ID: North Pond
Collection Date: 4/21/2016 10:55:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM
1,2,4-Trichlorobenzene	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4,5-Trichlorophenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
2,4,6-Trichlorophenol	ND	50	D	mg/Kg	10	4/28/2016 1:45:19 PM
Surr: 2-Fluorophenol	0	28.3-102	SD	%Rec	10	4/28/2016 1:45:19 PM
Surr: Phenol-d5	0	35.7-103	SD	%Rec	10	4/28/2016 1:45:19 PM
Surr: 2,4,6-Tribromophenol	0	35.2-108	SD	%Rec	10	4/28/2016 1:45:19 PM
Surr: Nitrobenzene-d5	0	24-118	SD	%Rec	10	4/28/2016 1:45:19 PM
Surr: 2-Fluorobiphenyl	0	35.4-111	SD	%Rec	10	4/28/2016 1:45:19 PM
Surr: 4-Terphenyl-d14	0	15-91.7	SD	%Rec	10	4/28/2016 1:45:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	4/27/2016 2:18:29 PM
Toluene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2-Dichloroethane (EDC)	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2-Dibromoethane (EDB)	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Naphthalene	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
1-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 2:18:29 PM
2-Methylnaphthalene	ND	0.20		mg/Kg	1	4/27/2016 2:18:29 PM
Acetone	ND	0.75		mg/Kg	1	4/27/2016 2:18:29 PM
Bromobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Bromodichloromethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Bromoform	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Bromomethane	ND	0.15		mg/Kg	1	4/27/2016 2:18:29 PM
2-Butanone	ND	0.50		mg/Kg	1	4/27/2016 2:18:29 PM
Carbon disulfide	ND	0.50		mg/Kg	1	4/27/2016 2:18:29 PM
Carbon tetrachloride	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Chlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Chloroethane	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
Chloroform	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Chloromethane	ND	0.15		mg/Kg	1	4/27/2016 2:18:29 PM
2-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
4-Chlorotoluene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
cis-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
cis-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2-Dibromo-3-chloropropane	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
Dibromochloromethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limit
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-003 **Matrix:** SOIL

Client Sample ID: North Pond
Collection Date: 4/21/2016 10:55:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Dibromomethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,3-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,4-Dichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Dichlorodifluoromethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1-Dichloroethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1-Dichloroethene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,3-Dichloropropane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
2,2-Dichloropropane	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
1,1-Dichloropropene	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
Hexachlorobutadiene	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
2-Hexanone	ND	0.50		mg/Kg	1	4/27/2016 2:18:29 PM
Isopropylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
4-Isopropyltoluene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
4-Methyl-2-pentanone	ND	0.50		mg/Kg	1	4/27/2016 2:18:29 PM
Methylene chloride	ND	0.15		mg/Kg	1	4/27/2016 2:18:29 PM
n-Butylbenzene	ND	0.15		mg/Kg	1	4/27/2016 2:18:29 PM
n-Propylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
sec-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Styrene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
tert-Butylbenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1,1,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1,2,2-Tetrachloroethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Tetrachloroethene (PCE)	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
trans-1,2-DCE	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
trans-1,3-Dichloropropene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2,3-Trichlorobenzene	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
1,2,4-Trichlorobenzene	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1,1-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,1,2-Trichloroethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Trichloroethene (TCE)	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Trichlorofluoromethane	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
1,2,3-Trichloropropane	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
Vinyl chloride	ND	0.050		mg/Kg	1	4/27/2016 2:18:29 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/27/2016 2:18:29 PM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/27/2016 2:18:29 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	4/27/2016 2:18:29 PM
Surr: Toluene-d8	101	70-130		%Rec	1	4/27/2016 2:18:29 PM

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
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: ACT ER w/Fire Bin
Lab ID: 1604A71-003 Matrix: SOIL

Client Sample ID: North Pond
Collection Date: 4/21/2016 10:55:00 AM
Received Date: 4/22/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DJF
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/27/2016 2:10:29 PM

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: ACT Environmental Services

Mailing Address: 6137 Edith Blvd NE
Albuquerque, NM 87107

Phone #: 505 349 5220

Email or Fax#: ABapm@ACTenvire.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: Overnight if possible / Billing
☒ Standard ☒ Rush 3 day if possible 4/22/14

Project Name: ACT ER w/ Fire Bin

Project #:

Project Manager: Jared Kinsey

Sampler: Jared Kinsey

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1404471	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$_2$,NO$_3$,PO$_4$,SO$_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	TCLP				Air Bubbles (Y or N)
4/22/14	1045	soil	Building South Side	1-4oz glass		001							X			X	X	X				
4/22/14	1050	soil	South Pond	1-4oz glass		002							X			X	X	X				
4/22/14	1055	soil	North Pond	1-4oz glass		003							X			X	X	X				

Date	Time	Relinquished by:	Received by:	Date	Time
4/22	935			04/22/14	0935

Remarks: No TCLP

See Blue Collector for matrix

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Attachment C – Waste Screening Sample Analytical Report
(full report with QC Data available upon request)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 06, 2016

Bill Littleton
Advanced Chemical Transport Alb
6137 Edith Blvd NE
Albuquerque, NM 87107
TEL: (719) 466-9328
FAX

RE: HHW Bin Water

OrderNo.: 1603E30

Dear Bill Littleton:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/30/2016 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 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-001 **Matrix:** AQUEOUS

Client Sample ID: T1077-1
Collection Date: 3/30/2016 11:30:00 AM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst: pmf	
Mercury	0.00022	0.00020		mg/L	1	4/4/2016 4:43:24 PM	24601
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: ELS	
Arsenic	ND	0.020		mg/L	1	4/4/2016 9:40:52 AM	24571
Barium	0.083	0.020		mg/L	1	4/4/2016 9:40:52 AM	24571
Cadmium	0.0028	0.0020		mg/L	1	4/4/2016 9:40:52 AM	24571
Chromium	ND	0.0060		mg/L	1	4/4/2016 9:40:52 AM	24571
Lead	0.0076	0.0050		mg/L	1	4/4/2016 9:40:52 AM	24571
Selenium	ND	0.050		mg/L	1	4/4/2016 9:40:52 AM	24571
Silver	ND	0.0050		mg/L	1	4/4/2016 9:40:52 AM	24571
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: KJH	
Diesel Range Organics (DRO)	5.8	1.0		mg/L	1	3/31/2016 8:50:36 AM	24511
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/31/2016 8:50:36 AM	24511
Surr: DNOP	110	70-141		%Rec	1	3/31/2016 8:50:36 AM	24511
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/31/2016 8:51:06 AM	A33206
Surr: BFB	91.4	49.5-130		%Rec	1	3/31/2016 8:51:06 AM	A33206
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM	
Acenaphthene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Acenaphthylene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Aniline	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Anthracene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Azobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benz(a)anthracene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzo(a)pyrene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzo(b)fluoranthene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzo(g,h,i)perylene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzo(k)fluoranthene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzoic acid	ND	100		µg/L	1	4/4/2016 12:47:18 PM	24544
Benzyl alcohol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Bis(2-chloroethyl)ether	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
4-Bromophenyl phenyl ether	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Butyl benzyl phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Carbazole	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
4-Chloro-3-methylphenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-001 Matrix: AQUEOUS

Client Sample ID: T1077-1
Collection Date: 3/30/2016 11:30:00 AM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES						Analyst: DAM	
4-Chloroaniline	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Chloronaphthalene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Chlorophenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Chrysene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Di-n-butyl phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Di-n-octyl phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Dibenz(a,h)anthracene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Dibenzofuran	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
1,2-Dichlorobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
1,3-Dichlorobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
1,4-Dichlorobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
3,3'-Dichlorobenzidine	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Diethyl phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Dimethyl phthalate	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4-Dichlorophenol	ND	100		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4-Dimethylphenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4-Dinitrophenol	ND	100		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4-Dinitrotoluene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2,6-Dinitrotoluene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Fluoranthene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Fluorene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Hexachlorobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Hexachlorobutadiene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Hexachlorocyclopentadiene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Hexachloroethane	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Isophorone	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
1-Methylnaphthalene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Methylnaphthalene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Methylphenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
3+4-Methylphenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
N-Nitrosodimethylamine	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
N-Nitrosodiphenylamine	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Naphthalene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Nitroaniline	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
3-Nitroaniline	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-001 **Matrix:** AQUEOUS

Client Sample ID: T1077-1
Collection Date: 3/30/2016 11:30:00 AM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Nitroaniline	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Nitrobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2-Nitrophenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
4-Nitrophenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Pentachlorophenol	ND	100		µg/L	1	4/4/2016 12:47:18 PM	24544
Phenanthrene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Phenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Pyrene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Pyridine	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
1,2,4-Trichlorobenzene	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4,5-Trichlorophenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
2,4,6-Trichlorophenol	ND	50		µg/L	1	4/4/2016 12:47:18 PM	24544
Surr: 2-Fluorophenol	30.6	15-123		%Rec	1	4/4/2016 12:47:18 PM	24544
Surr: Phenol-d5	27.5	4.13-124		%Rec	1	4/4/2016 12:47:18 PM	24544
Surr: 2,4,6-Tribromophenol	60.5	18.4-134		%Rec	1	4/4/2016 12:47:18 PM	24544
Surr: Nitrobenzene-d5	51.9	28.8-134		%Rec	1	4/4/2016 12:47:18 PM	24544
Surr: 2-Fluorobiphenyl	49.3	35.9-125		%Rec	1	4/4/2016 12:47:18 PM	24544
Surr: 4-Terphenyl-d14	45.2	15-146		%Rec	1	4/4/2016 12:47:18 PM	24544
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Toluene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Ethylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Naphthalene	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1-Methylnaphthalene	ND	4.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
2-Methylnaphthalene	ND	4.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Acetone	120	50		µg/L	5	3/31/2016 11:12:05 AM	R33207
Bromobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Bromodichloromethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Bromoform	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Bromomethane	ND	3.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
2-Butanone	22	10		µg/L	1	3/31/2016 3:35:04 AM	R33163
Carbon disulfide	ND	10		µg/L	1	3/31/2016 3:35:04 AM	R33163
Carbon Tetrachloride	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Chlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-001 Matrix: AQUEOUS

Client Sample ID: T1077-1
Collection Date: 3/30/2016 11:30:00 AM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Chloroethane	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Chloroform	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Chloromethane	ND	3.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
2-Chlorotoluene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
4-Chlorotoluene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
cis-1,2-DCE	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Dibromochloromethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Dibromomethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2-Dichlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,3-Dichlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,4-Dichlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Dichlorodifluoromethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1-Dichloroethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1-Dichloroethene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2-Dichloropropane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,3-Dichloropropane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
2,2-Dichloropropane	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1-Dichloropropene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Hexachlorobutadiene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
2-Hexanone	ND	10		µg/L	1	3/31/2016 3:35:04 AM	R33163
Isopropylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
4-Isopropyltoluene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
4-Methyl-2-pentanone	ND	10		µg/L	1	3/31/2016 3:35:04 AM	R33163
Methylene Chloride	3.5	3.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
n-Butylbenzene	ND	3.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
n-Propylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
sec-Butylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Styrene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
tert-Butylbenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
trans-1,2-DCE	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,1,1-Trichloroethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-001 **Matrix:** AQUEOUS

Client Sample ID: T1077-1
Collection Date: 3/30/2016 11:30:00 AM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
1,1,2-Trichloroethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Trichloroethene (TCE)	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Trichlorofluoromethane	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
1,2,3-Trichloropropane	ND	2.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Vinyl chloride	ND	1.0		µg/L	1	3/31/2016 3:35:04 AM	R33163
Xylenes, Total	ND	1.5		µg/L	1	3/31/2016 3:35:04 AM	R33163
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/31/2016 3:35:04 AM	R33163
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	3/31/2016 3:35:04 AM	R33163
Surr: Dibromofluoromethane	100	70-130		%Rec	1	3/31/2016 3:35:04 AM	R33163
Surr: Toluene-d8	91.9	70-130		%Rec	1	3/31/2016 3:35:04 AM	R33163

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Qualifiers:

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D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-002 **Matrix:** AQUEOUS

Client Sample ID: T96
Collection Date: 3/30/2016 12:15:00 PM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 7470: MERCURY						Analyst:	pmf
Mercury	0.011	0.0010		mg/L	5	4/4/2016 5:54:51 PM	24601
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst:	ELS
Arsenic	ND	0.020		mg/L	1	4/4/2016 9:42:02 AM	24571
Barium	0.091	0.020		mg/L	1	4/4/2016 9:42:02 AM	24571
Cadmium	0.014	0.0020		mg/L	1	4/4/2016 9:42:02 AM	24571
Chromium	0.012	0.0060		mg/L	1	4/4/2016 9:42:02 AM	24571
Lead	0.055	0.0050		mg/L	1	4/4/2016 9:42:02 AM	24571
Selenium	ND	0.050		mg/L	1	4/4/2016 9:42:02 AM	24571
Silver	ND	0.0050		mg/L	1	4/4/2016 9:42:02 AM	24571
EPA METHOD 8015M/D: DIESEL RANGE						Analyst:	KJH
Diesel Range Organics (DRO)	43	10		mg/L	10	3/30/2016 6:12:29 PM	24511
Motor Oil Range Organics (MRO)	ND	50		mg/L	10	3/30/2016 6:12:29 PM	24511
Surr: DNOP	54.6	70-141	S	%Rec	10	3/30/2016 6:12:29 PM	24511
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	110	10		mg/L	200	3/31/2016 9:14:21 AM	A33206
Surr: BFB	87.8	49.5-130		%Rec	200	3/31/2016 9:14:21 AM	A33206
EPA METHOD 8270C: SEMIVOLATILES						Analyst:	DAM
Acenaphthene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Acenaphthylene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Aniline	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Anthracene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Azobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benz(a)anthracene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzo(a)pyrene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzo(b)fluoranthene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzo(g,h,i)perylene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzo(k)fluoranthene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzoic acid	480	200		µg/L	1	4/4/2016 1:17:39 PM	24544
Benzyl alcohol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Bis(2-chloroethoxy)methane	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Bis(2-chloroethyl)ether	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Bis(2-chloroisopropyl)ether	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Bis(2-ethylhexyl)phthalate	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
4-Bromophenyl phenyl ether	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Butyl benzyl phthalate	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Carbazole	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
4-Chloro-3-methylphenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544

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Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-002 Matrix: AQUEOUS

Client Sample ID: T96
Collection Date: 3/30/2016 12:15:00 PM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: DAM
4-Chloroaniline	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Chloronaphthalene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Chlorophenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
4-Chlorophenyl phenyl ether	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Chrysene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Di-n-butyl phthalate	160	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Di-n-octyl phthalate	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Dibenz(a,h)anthracene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Dibenzofuran	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
1,2-Dichlorobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
1,3-Dichlorobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
1,4-Dichlorobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
3,3'-Dichlorobenzidine	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Diethyl phthalate	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Dimethyl phthalate	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4-Dichlorophenol	ND	200		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4-Dimethylphenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
4,6-Dinitro-2-methylphenol	ND	200		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4-Dinitrophenol	ND	200		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4-Dinitrotoluene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2,6-Dinitrotoluene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Fluoranthene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Fluorene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Hexachlorobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Hexachlorobutadiene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Hexachlorocyclopentadiene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Hexachloroethane	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Isophorone	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
1-Methylnaphthalene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Methylnaphthalene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Methylphenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
3+4-Methylphenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
N-Nitrosodi-n-propylamine	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
N-Nitrosodimethylamine	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
N-Nitrosodiphenylamine	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Naphthalene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Nitroaniline	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
3-Nitroaniline	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544

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
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Client Sample ID: T96
Project: HHW Bin Water
Collection Date: 3/30/2016 12:15:00 PM
Lab ID: 1603E30-002
Matrix: AQUEOUS
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES							Analyst: OAM
4-Nitroaniline	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Nitrobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2-Nitrophenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
4-Nitrophenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Pentachlorophenol	ND	200		µg/L	1	4/4/2016 1:17:39 PM	24544
Phenanthrene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Phenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Pyrene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Pyridine	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
1,2,4-Trichlorobenzene	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4,5-Trichlorophenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
2,4,6-Trichlorophenol	ND	100		µg/L	1	4/4/2016 1:17:39 PM	24544
Surr: 2-Fluorophenol	4.54	15-123	S	%Rec	1	4/4/2016 1:17:39 PM	24544
Surr: Phenol-d5	1.66	4.13-124	S	%Rec	1	4/4/2016 1:17:39 PM	24544
Surr: 2,4,6-Tribromophenol	45.8	18.4-134		%Rec	1	4/4/2016 1:17:39 PM	24544
Surr: Nitrobenzene-d5	40.8	28.8-134		%Rec	1	4/4/2016 1:17:39 PM	24544
Surr: 2-Fluorobiphenyl	42.4	35.9-125		%Rec	1	4/4/2016 1:17:39 PM	24544
Surr: 4-Terphenyl-d14	32.8	15-146		%Rec	1	4/4/2016 1:17:39 PM	24544
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Benzene	280	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Toluene	9200	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Ethylbenzene	1100	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2,4-Trimethylbenzene	250	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,3,5-Trimethylbenzene	350	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2-Dichloroethane (EDC)	1100	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Naphthalene	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
1-Methylnaphthalene	ND	400		µg/L	100	3/31/2016 4:03:11 AM	R33163
2-Methylnaphthalene	ND	400		µg/L	100	3/31/2016 4:03:11 AM	R33163
Acetone	460000	100000		µg/L	1E	3/31/2016 11:40:19 AM	R33207
Bromobenzene	900	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Bromodichloromethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Bromoform	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Bromomethane	ND	300		µg/L	100	3/31/2016 4:03:11 AM	R33163
2-Butanone	ND	1000		µg/L	100	3/31/2016 4:03:11 AM	R33163
Carbon disulfide	ND	1000		µg/L	100	3/31/2016 4:03:11 AM	R33163
Carbon Tetrachloride	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Chlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163

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

Qualifiers:
- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-002 Matrix: AQUEOUS

Client Sample ID: T96
Collection Date: 3/30/2016 12:15:00 PM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: DJF
Chloroethane	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
Chloroform	7400	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Chloromethane	ND	300		µg/L	100	3/31/2016 4:03:11 AM	R33163
2-Chlorotoluene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
4-Chlorotoluene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
cis-1,2-DCE	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
cis-1,3-Dichloropropene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
Dibromochloromethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Dibromomethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2-Dichlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,3-Dichlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,4-Dichlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Dichlorodifluoromethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1-Dichloroethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1-Dichloroethene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2-Dichloropropane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,3-Dichloropropane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
2,2-Dichloropropane	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1-Dichloropropene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Hexachlorobutadiene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
2-Hexanone	ND	1000		µg/L	100	3/31/2016 4:03:11 AM	R33163
Isopropylbenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
4-Isopropyltoluene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
4-Methyl-2-pentanone	ND	1000		µg/L	100	3/31/2016 4:03:11 AM	R33163
Methylene Chloride	210000	30000		µg/L	1E	3/31/2016 11:40:19 AM	R33207
n-Butylbenzene	ND	300		µg/L	100	3/31/2016 4:03:11 AM	R33163
n-Propylbenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
sec-Butylbenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Styrene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
tert-Butylbenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
Tetrachloroethene (PCE)	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
trans-1,2-DCE	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
trans-1,3-Dichloropropene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2,3-Trichlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2,4-Trichlorobenzene	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,1,1-Trichloroethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Advanced Chemical Transport Alb
Project: HHW Bin Water
Lab ID: 1603E30-002 **Matrix:** AQUEOUS

Client Sample ID: T96
Collection Date: 3/30/2016 12:15:00 PM
Received Date: 3/30/2016 1:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES							Analyst: OJF
1,1,2-Trichloroethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Trichloroethene (TCE)	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Trichlorofluoromethane	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
1,2,3-Trichloropropane	ND	200		µg/L	100	3/31/2016 4:03:11 AM	R33163
Vinyl chloride	ND	100		µg/L	100	3/31/2016 4:03:11 AM	R33163
Xylenes, Total	5100	150		µg/L	100	3/31/2016 4:03:11 AM	R33163
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	100	3/31/2016 4:03:11 AM	R33163
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	100	3/31/2016 4:03:11 AM	R33163
Surr: Dibromofluoromethane	95.3	70-130		%Rec	100	3/31/2016 4:03:11 AM	R33163
Surr: Toluene-d8	88.8	70-130		%Rec	100	3/31/2016 4:03:11 AM	R33163

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: Advanced Chemical Transport

Mailing Address: 6137 Edith N.E.
Albuquerque, NM, 87107

Phone #: 505-349-5220

Email or Fax#: ABQPM@actenviro.com

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 24 hr

Project Name: HHW Bin Water

Project #:

Project Manager: Bill Littleton

Sampler: Daniel Eddings

On Ice: ☑ Yes ☐ No

Sample Temperature: 10.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	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_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
3/30	11:30	Ag	T1077-1	6 X VOA	HCL	1203E30 -001			✓				✓			✓	✓					
				1 X 500 mL	HNO^3				✓				✓			✓	✓					
				1 X 250 mL					✓				✓			✓	✓					
				1 X 1 L					✓				✓			✓	✓					
3/30	12:15	Ag	T96	6 X VOA	HCL	-002			✓				✓			✓	✓					
				1 X 500 mL	HNO^3				✓				✓			✓	✓					
				1 X 250 mL					✓				✓			✓	✓					
				1 X 1 L					✓				✓			✓	✓					

Date:	Time	Relinquished by:	Received by:	Date	Time	Remarks
3/30	1340	[signature]	[signature]	03/30/16	1340	
Date:	Time:	Relinquished by	Received by:	Date	Time	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.