OWL Landfill Services, LLC
(dba) Northern Delaware Basin Landfill
8201 Preston Rd. Suite 520
Dallas, Texas 75225
(214) 292-2011

Date: August 29, 2024

Mr. Brad Jones
EMNRD Oil Conservation Division
1220 S. Saint Francis Dr.
Santa Fe, NM 87505

RE: Annual Reporting
OWL Landfill Services, LLC, (dba) Northern Delaware Basin Landfill, Lea County, New Mexico
Commercial Surface Waste Management Facility Permit NM1-63. Section 23, Township 24 South, Range 33 East NMPM, Lea County, New Mexico dated 08/17/2017

Dear Mr. Jones:

As part of our Commercial Surface Waste Management Facility Permit NM1-63, located in Lea County, New Mexico, OWL Landfill Services, LLC is required to submit an annual report to the Oil Conservation Division (OCD) by September 1st of each year, providing information for the preceding year.

Section 2, General Facility Operations, Item D, specifically states:

> **Annual Report.** The operator must submit an annual report to the OCD by September 1st of each year providing the following information for the preceding year: 1) all inspection forms including those for leak detection systems along with analytical results, 2) hydrogen sulfide monitoring results, 3) process piping integrity test results, 4) training records, 5) complaint logs and resolutions, and 6) a summary of the nature and amount of any reportable releases.

To address this requirement, I would like to offer the following as it pertains to Section 2, D of our Commercial Surface Waste Management Facility Permit:

1) **All inspection forms including those for leak detection systems along with analytical results**

   All leak detection systems were inspected in accordance with the facility operating permit. The inspection forms are kept at the site and available for review upon request and are attached for your records.
   In 2023, during monthly inspections, there were no reported fluids in the leak detection sumps when checked at the drying pad, pond, landfill cell 1, 2 or 3. Therefore there are no analytical results to present.

2) Hydrogen Sulfide monitoring results

H2S monitors that issue a visual and audible signal at 10 ppm are installed in areas around the solid waste disposal cells, treating plant, liquid solidification, evaporation pond and site boundary to ensure compliance with regulatory alert levels. Monitoring points may be added or replaced as operations are extended. The H2S monitoring system which monitors the site and cycles multiple times per day is tested and calibrated monthly by a third-party vendor, Safety Solutions, LLC out of the Midland, TX office. Incoming waste loads are also checked at the point of unloading at the mud plant and the results are entered into our Point-of-Sale system. Each load of incoming waste has the results of the monitoring, either pass or fail, and can be viewed at any time on-site. Further, ANY load detected of 1 PPM or greater is rejected and immediately taken off site. Additionally, each OWL employee is issued a personal H2S Monitor to wear under circumstances where H2S may be present, including when they are testing or unloading materials that may contain H2S.
While the option exists to treat incoming waste loads containing H2S, it is the operating policy to reject loads that contain H2S of 1 PPM or greater to further protect the employees and public which utilize the site.
It should be noted that the site conducts training on the dangers of H2S and basic operational safeguards as per the Hydrogen Sulfide (H2S) Prevention Contingency Plan in Part II, as described in the site's permit application. This training is site specific and conducted in accordance with Parts 19.15.36 and 19.15.11 NMAC, specifically 19.15.11.9, B, (2)(d) (see below training records section).
In addition to monitoring incoming loads for H2S, vadose zone monitoring wells are monitored twice annually for the presence of methane and H2S as part of routine subsurface monitoring as described in the Vadose Zone Monitoring Plan (results of monitoring are attached).

3) Process piping integrity test results

It is a matter of daily operations that the employees working the site inspect the process piping daily, weekly, and monthly for leaks in welded joints, loose fittings and flanged connections and immediately report the issue for prompt correction.
As part of the monthly inspections, the site personnel walk / inspect the process piping and note deficiencies if found, and immediately address the issue. In 2023, there have been no process piping failures and no integrity issues noted.

4) Training records

Training is completed by a third-party safety company, Got Safety, LLC out of Hobbs, NM. While not conducted on a normal monthly routine schedule, all employees received their annual training requirements in 2023. Attached you will find a list of the annual training each employee received.
Although we do not have production wells or facilities on site that have the potential to release H2S, we are somewhat concerned about surrounding facilities that could have a potential fugitive release of H2S gas. To address this, the site put together a training program that directly relates to this requirement. The training identifies the essential personnel and their duties, emergency notification, inspection of incoming wastes and employee responsibility, muster points and drills relating to fugitive H2S, potential on-site issues, waste identification and general site operations. It should be noted that the program was not completed in time for a 2022 session, but the training began in January 2023 and will continue several times annually. The sign in sheet for this training and annual SWPPP training is attached to this report.

5) **Complaint logs and resolutions**

OWL is to provide complaint logs and resolutions if any are reported. For the period of January 2023, through December 2023, there were no complaints noted on the log.

6) **Summary of the nature and amount(s) of any reportable releases**

OWL is to provide a summary of the nature and amount(s) of any reportable releases if any occur. Releases, if any occurrences, are to be reported both verbally and timely written notice on Form C141. For the period of January 2023 through December 2023, there were no reportable releases, therefore no notice, either verbally or written was required.
Accordingly, OWL cannot submit a summary of the nature and amount(s) of any reportable releases (if any) as required for the preceding year 2023 as there have not been any reportable releases associated with the operation of the facility for the reporting year.

7) **CPC Cost Estimate(s)**

In order to satisfy condition H1 of the permit, the CPC Cost Estimate for closure and post closure costs for 2023 is provided herein. Our current bond runs through October 2023 and will be renewed as scheduled. Additionally, the 2023 CPC Cost Estimate is attached which will be for the renewal in October 2023. Once the bond is renewed in October, we will upload it to the OCD's portal.

In addition to the above, there have not been any NORM wastes accepted at the facility, there have been no disposal wells incorporated into facility operations, no increases in the land area the facility occupies, no change in the design capacity, nor has there been any change in the nature of oilfield waste streams or additions of new treatment processes.

OWL Landfill Services. LLC is committed to the safety of the public, our employees, and the environment and will operate in a productive, responsible manner. The OWL Facility is designed in compliance with 19.15.36 NMAC, has been constructed and being operated in compliance with our Surface Waste Management Facility Permit NM1-63.

If you have any further questions or feel this letter does not serve its intended purpose of reporting for the preceding year, you may contact Zach Ramos at (575) 631-2680 or by e-mail at zramos@ndblandfill.com. On behalf of OWL Landfill Services, LLC, I wish to thank you in advance for your continued support of this facility.

Sincerely,

Zach Ramos
President
OWL Landfill Services, LLC

ATTACHMENT II.4.D.1
CLOSURE/POST-CLOSURE
COST ESTIMATE SUMMARY - 2024 Update
OWL Landfill Services, LLC

TASK	COST ESTIMATE
1.0 LANDFILL CLOSURE CONSTRUCTION	$1,278,742.00
2.0 LANDFILL MAINTENANCE	$412,493.73
3.0 ENVIRONMENTAL MONITORING	$148,959.36
4.0 POND AND PROCESSING AREA CLOSURE (see Att. II.4.D.5)	$494,953.16
5.0 POND AND PROCESSING AREA MAINTENANCE	$31,360.20
2023 TOTAL COST ESTIMATE w/addition of 15 acres in Cells 1B/2B	$2,519,252.40
CPI-U Increase Dec 2022-Dec 2023	$0.03
2024 TOTAL COST ESTIMATE	$2,603,700.84

ATTACHMENT II.4.D.2
PHASE I LANDFILL CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE - 2023 Update
OWL Landfill Services, LLC Landfill (Unit 1 - 34.8 acres ±) + Cell 5AB (8.0 acres) = Total 42.8 acres

TASK 1.0	Unit Quantity	Unit	Unit Cost	Total Cost
1.1 Final Cover Installation (See Note 5)				
1.1.1 Install and compact 12" Intermediate Cover Layer	93,251	CY	$2.99	$278,819.49
1.1.2 Install and compact 6" Barrier Layer	46,625	CY	$4.10	$191,163.87
1.1.3 Install 24" Vegetative Layer	186,501	CY	$2.93	$546,448.91
1.1.4 Vegetative Layer Seeding (Class A)	42.8	AC	$1,747.40	$74,788.72
			Task Subtotal	$1,091,220.99
1.2 Final Cover CQA				
1.2.1 Inspection and Testing	1	LS	$59,393	$59,393.11
1.2.2 Certification	1	LS	$11,879	$11,878.63
			Task Subtotal	$71,271.74
			TASK TOTALS	$1,162,492.73
			Independent Project Manager and Contract Administration Cost (10% of Task Totals)	$116,249.27
			TOTAL COST	$1,278,742.00

Notes:

1. Phase I closure costs (Now 42.8 ac) are based on contracting with a qualified third party to complete and certify closure. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Final cover installation costs assume that: The greatest area requiring final cover is 42.8 acres and all soils necessary for closure are available on-site
3. CY = Cubic Yard, AC = Acre, LS = Lump Sum
4. Due to the perimeter location there is no final cover "crown" and related geosynthetic layers in Unit 1.
5. Previous year yardage calculations were overestimated and corrected this year

ATTACHMENT II.4.D.3
PHASE I LANDFILL MAINTENANCE
POST-CLOSURE COST ESTIMATE - 2023 Update
OWL Landfill Services, LLC

TASK 2.0	Unit Quantity	Unit	Unit Cost	Total Cost Per Year	Total Cost For 30 Years
2.1 Final Cover Inspection and Reporting					
2.1.1 Inspection	2	events/yr	$1,187.89	$2,375.78	$71,273.40
2.1.2 Recordkeeping and Reporting	2	events/yr	$475.16	$950.32	$28,509.60
			Task Subtotals	**$3,326.10**	**$99,783.00**
2.2 Final Cover Maintenance					
2.2.1 Cover Maintenance	1	AC/yr	$1,187.89	$1,187.89	$35,636.70
2.2.2 Vegetation	2	AC/yr	$1,747.40	$3,494.80	$104,844.00
			Task Subtotals	**$4,682.69**	**$140,480.70**
2.3 Leachate System					
2.3.1 Inspection/Repair	1	events/yr	$475.16	$475.16	$14,254.80
2.3.2 Disposal	1	events/yr	$1,164.94	$1,164.94	$34,948.20
			Task Subtotals	**$1,640.10**	**$49,203.00**
2.4 Surface Water Management Systems					
2.4.1 Inspection/Repairs	2	events/yr	$712.73	$1,425.46	$42,763.80
			Task Subtotals	**$1,425.46**	**$42,763.80**
2.5 Fencing					
2.5.1 Inspection/Repairs	2	events/yr	$712.73	$1,425.46	$42,763.80
			Task Subtotals	**$1,425.46**	**$42,763.80**
			TASK TOTALS	**$12,499.81**	**$374,994.30**
			Independent Project Manager and Contract Administration Cost (10% of Task Totals)	$1,249.98	$37,499.43
			TOTAL COST	**$12,499.81**	**$412,493.73**

Notes:

1. Phase I post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care maintenance for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. AC = Acre
   LS = Lump Sum

ATTACHMENT II.4.D.4
PHASE I ENVIRONMENTAL MONITORING
POST-CLOSURE COST ESTIMATE - 2023 Update
OWL Landfill Services, LLC

TASK 3.0	Unit Quantity	Unit	Unit Cost	Total Cost Per Year	Total Cost
3.1 Vadose Zone Monitoring					
3.1.1 Field Services/Lab Analysis/Reporting (30 years)	1	events/yr	$2,732.10	$2,732.10	$81,963.00
			Task Subtotal	**$2,732.10**	**$81,963.00**
3.2 NPDES Monitoring					
3.2.1 Field Services/Reporting (30 years)	1	events/yr	$1,781.82	$1,781.82	$53,454.60
			Task Subtotal	**$1,781.82**	**$53,454.60**
			TASK TOTALS	**$4,513.92**	**$135,417.60**
Independent Project Manager and Contract Administration Cost (10% of Task Totals)				$451.39	$13,541.76
			TOTAL COST	**$4,965.31**	**$148,959.36**

Notes:

1. Phase I closure costs are based on contracting with a qualified third party to conduct post-closure monitoring for the landfill. The activities included in this cost estimate are based on current dollars, previous experience with landfills located in arid climates, and current subcontractor costs.
2. Assume no water in vadose wells (i.e., sampling and analysis costs not included).

ATTACHMENT II.4.D.5
PHASE I POND AND PROCESSING AREA CLOSURE CONSTRUCTION
CLOSURE COST ESTIMATE - 2023 Update
OWL Landfill Services, LLC

Task 4.0	Units	Unit Cost	Total (28 acres) Quantity	Cost
4.1 Evaporation Pond				
4.1.1 Liquids Transport/Disposal				
4.1.1.1 Transport Liquid	bbl	$2.10	240	$ 504.00
4.1.1.2 Disposal Liquids	bbl	$1.15	240	$ 276.00
4.1.1.3 Remove/Transport Sludge	ton	$7.75	4,840	$ 37,510.00
4.1.1.4 Disposal Sludge	ton	$17.84	4,840	$ 86,345.60
4.1.1.5 Liner Removal/Transport	CY	$4.77	200	$ 954.00
4.1.1.6 Disposal Liner	CY	$5.07	200	$ 1,014.00
			Task Subtotal	**$ 126,603.60**
4.1.2 Pond Backfill and Contouring				
4.1.2.1 Soil On-site	CY	$1.23	0	$ -
4.1.2.2 Place and Compact Soil	CY	$3.58	15,000	$ 53,700.00
			Task Subtotal	**$ 53,700.00**
4.1.3 Sampling	each	$238	300	$ 71,280.00
4.1.4 Seeding	acres	$1,782	28	$ 49,890.96
			Task Subtotal	**$ 121,170.96**
Pond Closure Subtotal:			**$**	**301,474.56**
4.2 Site Work				
4.2.1 Tank Removal		LS	$	29,697
4.2.2 Building Removal		LS	$	29,696.58
4.2.3 Process Equipment Removal		LS	$	29,696.58
4.2.4 Earthwork		LS	$	11,878.63
Site Work Subtotal:			**$**	**100,968.37**
4.3 Engineering				
4.3.1 CQA/Certification		LS	$	47,514.49
Engineering Subtotal:		LS	**$**	**47,514.49**
4.4 Totals				
4.4.1 Subtotal			$	449,957.42
4.4.2 Adminstration Cost (10%)			$	44,995.74
Total:			**$**	**494,953.16**

Notes:

1. Phase I closure costs are based on contracting with a qualified third party to complete and certify closure.
2. Assume 1,000 gallons of residual water in each pond transported up to 50 miles for disposal.
3. Assume 6" of sludge remaining in each pond at closure transported up to 50 miles for disposal.
4. Site Sampling is conducted during the CQA phase.
5. CY = Cubic Yard
   LS = Lump Sum

C:\Users\tshreve\OneDrive - Oilfield Water Logistics\Documents\OWL Landfill Services LLC\Permit\2023 Annual Reporting\OWL-CPCCostEst_2024_UPDATE\Ponds

ATTACHMENT II.4.D.6
PHASE I POND AND PROCESSING AREA MAINTENANCE
POST-CLOSURE COST ESTIMATE - 2023 Update
OWL Landfill Services, LLC

TASK 5.0	Unit Quantity	Unit	Unit Cost	Total Cost Per Year	Total Cost For 3 Years
5.1 Surface Inspection and Reporting					
5.1.1 Inspection	2	events/yr	$1,187.89	$2,375.78	$7,127.34
5.1.2 Recordkeeping and Reporting	2	events/yr	$475.16	$950.32	$2,850.96
			Task Subtotals	**$3,326.10**	**$9,978.30**
5.2 Surface Maintenance					
5.2.1 Cover Maintenance	1	AC/yr	$1,187.89	$1,187.89	$3,563.67
5.2.2 Vegetation	2	AC/yr	$1,781.82	$3,563.64	$10,690.92
			Task Subtotals	**$4,751.53**	**$14,254.59**
5.3 Fencing					
5.3.1 Inspection/Repairs	2	events/yr	$713	$1,425.46	$4,276.38
			Task Subtotals	**$1,425.46**	**$4,276.38**
			TASK TOTALS	**$9,503.09**	**$28,509.27**
			Independent Project Manager and Contract Administration Cost (@ 10%)	$950.31	$2,850.93
			TOTAL COST	**$9,503.09**	**$31,360.20**

Notes:

1. Phase I post-closure maintenance costs are based on contracting with a qualified third party to conduct post-closure care/maintenance for the Processing Area. The activities included in this cost estimate are based on current dollars, previous experience with closures located in arid climates, and current subcontractor costs.
2. AC = Acre
   LS = Lump Sum

Parkhill

June 14, 2023

Mr. Zach Ramos
Landfill Manager, NDBL
OWL Landfill Services, LLC
2029 W. NM Hwy 128
Jal, NM 88252

Re: 40720.23 Northern Delaware Basin Landfill
Surface Waste Disposal Facility – NMOSE Permit No. NM1-63
Vadose Zone Monitoring Well Data, May 24, 2023 Monitoring Event
Lea County, New Mexico

Dear Mr. Ramos:

Enclosed with this letter are copies of vadose water purging, testing, analytical, and soil vapor field screening data collected from vadose zone monitoring wells at the Northern Delaware Basin Landfill on May 24, 2023. Vadose water sample collection and analysis and field screening were triggered by the detection of water in Vadose Zone Monitoring (VZM) Wells VZ-5 and VZ-6 during routine semiannual Vadose Zone monitoring.

Vadose water and soil vapor samples were collected and analyzed in accordance with commitments for Vadose Zone Monitoring set forth in Permit No. NM1-63 (August 17, 2017), and the Vadose Zone Monitoring Plan (Volume II.9) of the October 2016 facility Permit Application. Vadose water samples were collected from Wells VZ-5 and VZ-6, and soil vapor samples were collected from each of the 10 vadose zone wells in the well network (VZ-1 through VZ-10). Vadose water samples were delivered to Hall Environmental Analysis Labs in Albuquerque, New Mexico on May 25, 2023, and analytical results were received on June 9, 2023.

Parkhill has performed an initial review of the analytical results and has found no analytes detected that would indicate impacts from the landfill. Enclosed are files containing copies of the purge notes and laboratory analytical report for vadose water samples collected from Well VZ-5 and VZ-6, as well as soil vapor screening data taken from each of the 10 vadose zone wells at the facility. If you have any questions regarding this transmittal, feel free to contact me.

Sincerely,

PARKHILL

By _____
Andy N. Yuhas, PG
Professional Geologist

ANY/pg
Enclosures:
- VZM Purge Notes and Field Parameters
- Hall Environmental Analysis Laboratory analytical report for Wells VZ-5 and VZ-6
- VZM Well 1-10 Soil vapor screening results

cc: Mr. Tim Shreve, Director of Landfill Operations, NDBL
Mr. Matt Kingsley, PE, Principal, Parkhill

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Exhibit A
VZM Purge Notes and Field Parameters
(May 24, 2023)

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK [illegible]

Observers: TK.

Site/Well Condition: Good

Well ID: VZ-1

Depth-to-water: Dry

Total Depth: 51.15

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10 /E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet

(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed	Twine
Capacity/Length: 1 L / 36"	New? Y or N
Material/Source	Appx Length
	Material/Source

Time	Gallons Removed	°C	pH	SC units____	Observations

Notes: Dry

Field Blank: -

Dupe: -

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK [redacted]

Observers: [redacted] TK

Site/Well Condition: Good

Well ID: 122

Depth-to-water: Dry

Total Depth: 43.9

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet

(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source _____

~~Twine~~

New? Y or N

Appx Length _____

Material/Source _____

Time	Gallons Removed	°C	pH	SC units____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

[redacted] Matt Kingsley

Signature

Name

Signature

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK ~~MTH~~

Observers: JK

Site/Well Condition: Good

Well ID: VE-3

Depth-to-water: Dry

Total Depth: 42.1

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet

(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source _____

Twine

New? Y or N

Appx Length _____

Material/Source _____

Time	Gallons Removed	°C	pH	SC units_____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: VZ-4

Depth-to-water: 49.8

Total Depth: 50.5

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 65°C

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons) (50.5 - 49.8) = 0.7 feet
(Total Depth - DTW) = well column

0.7 x 0.163 = 0.1141 gallons
(Well Column x 0.163) = 1 well-volume

Three Well Volumes 0.1141 x 3 = 0.3423 gallons
1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed
Capacity/Length: 1 L / 36"
Material/Source

Twine
New? Y ~~or~~ N
Appx Length
Material/Source

Time	Gallons Removed	°C	pH	SC units	Observations

Notes: Unable to retrieve water with bailer

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: VZ-5

Depth-to-water: ~~56.5~~ 42.9

Total Depth: 56.5

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 850

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(52.5 - 42.9) = 13.6 feet

(Total Depth - DTW) = well column

13.6 x 0.163 = 2.22 gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

2.22 x 3 = 6.66 gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source

Twine

New? (Y) or (N)

Appx Length 60'

Material/Source: Dedicated

Time	Gallons Removed	°C	pH	SC units µS	Observations
~~2:30~~ 2:00	7	22.5	7.6	495	-

Notes: Samples Collected

Field Blank: -

Dupe: -

Filtered: no

Sampler(s):

Name: Matt Kingsley

Signature: Matt Kingsley

Name

Signature

Groundwater Monitoring Field Notes

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: KZ-6

Depth-to-water: 33.20

Total Depth: 62.15

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(62.15 - 33.20) = 28.95 feet

(Total Depth - DTW) = well column

28.95 x 0.163 = 4.72 gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

4.72 x 3 = 14.16 gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source:

Twine

New? (Y) or N

Appx Length 100'

Material/Source Poly

Time	Gallons Removed	°C	pH	SC units mS	Observations
2:00	15	21.6	7.5	6.08	-

Notes: Samples Collected

Field Blank: -

Dupe: 0205

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: MZ-7

Depth-to-water: Dry

Total Depth: 44.75

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 55°

Wind Direction/Speed: 10 E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet

(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source

Twine

New? Y or N

Appx Length

Material/Source

Time	Gallons Removed	°C	pH	SC units____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: VE-8

Depth-to-water: Dry

Total Depth: 37.85

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet

(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source _____

Twine

New? Y or N

Appx Length _____

Material/Source _____

Time	Gallons Removed	°C	pH	SC units_____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Groundwater Monitoring Field Notes

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: VZ-9

Depth-to-water: Dry

Total Depth: 531'

Measured from: Top of Casing

Date: 5/24/23

Ambient Temperature: 65°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons) (_____ - _____) = _____ feet
(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons
(Well Column x 0.163) = 1 well-volume

Three Well Volumes _____ x 3 = _____ gallons
1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed
Capacity/Length: 1 L / 36"
Material/Source _____

Twine
New? Y or N
Appx Length _____
Material/Source _____

Time	Gallons Removed	°C	pH	SC units_____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley
Name
Matt Kingsley
Signature

Name

Signature

Groundwater Monitoring Field Notes

Site: OWL

Samplers: MWK

Observers: TK

Site/Well Condition: Good

Well ID: VE-10

Depth-to-water: Dry

Total Depth: 50.7

Measured from: Casing

Date: 5/24/23

Ambient Temperature: 85°

Wind Direction/Speed: 10/E

Recent Precipitation: N/A

Sampling Method: BAILER

One Well Volume (feet, gallons)

(_____ - _____) = _____ feet
(Total Depth - DTW) = well column

_____ x 0.163 = _____ gallons
(Well Column x 0.163) = 1 well-volume

Three Well Volumes

_____ x 3 = _____ gallons
1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed
Capacity/Length: 1 L / 36"
Material/Source _____

Twine
New? Y or N
Appx Length _____
Material/Source _____

Time	Gallons Removed	°C	pH	SC units_____	Observations

Notes: Dry

Field Blank: —

Dupe: —

Filtered: no

Sampler(s): Matt Kingsley

Name

Matt Kingsley

Signature

Name

Signature

Exhibit B

Hall Environmental Analysis Laboratory
Analytical Report for Wells VZ-5 and VZ-6
(June 9, 2023)

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

June 09, 2023

Andy Yuhas
Parkhill
333 Rio Rancho Blvd. N.E., Suite 400
Rio Rancho, NM 87124
TEL: (505) 867-6990
FAX: (505) 867-6991

RE: OWL NDBL Landfill OrderNo.: 2305D44

Dear Andy Yuhas:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/25/2023 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Project: OWL NDBL Landfill
Lab ID: 2305D44-001 **Matrix:** AQUEOUS

Client Sample ID: VZ-5
Collection Date: 5/24/2023 2:30:00 PM
Received Date: 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Fluoride	2.3	0.50		mg/L	5	5/26/2023 2:51:45 AM	A97043
Chloride	5.2	2.5		mg/L	5	5/26/2023 2:51:45 AM	A97043
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/26/2023 2:51:45 AM	A97043
Nitrogen, Nitrate (As N)	9.1	0.50		mg/L	5	5/26/2023 2:51:45 AM	A97043
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/26/2023 2:51:45 AM	A97043
Sulfate	8.7	2.5		mg/L	5	5/26/2023 2:51:45 AM	A97043
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **CAS**	
Conductivity	470	10		µmhos/c	1	5/30/2023 3:50:44 PM	R97102
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	336	100	D	mg/L	1	6/1/2023 5:08:00 PM	75259
SM4500-H+B / 9040C: PH						Analyst: **CAS**	
pH	7.84		H	pH units	1	5/30/2023 3:50:44 PM	R97102
EPA METHOD 6020A: TOTAL METALS						Analyst: **ELS**	
Arsenic	0.016	0.0010		mg/L	1	6/3/2023 10:09:22 AM	75306
Lead	0.0098	0.0010		mg/L	1	6/3/2023 10:09:22 AM	75306
Selenium	0.0027	0.0010		mg/L	1	6/5/2023 9:53:04 AM	75306
EPA METHOD 7470A: MERCURY						Analyst: **tem**	
Mercury	ND	0.00020		mg/L	1	5/31/2023 6:28:20 PM	75241
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Barium	0.26	0.0020		mg/L	1	6/2/2023 11:48:22 AM	75306
Cadmium	ND	0.0020		mg/L	1	6/2/2023 11:48:22 AM	75306
Calcium	94	1.0		mg/L	1	6/2/2023 11:48:22 AM	75306
Chromium	0.022	0.0060		mg/L	1	6/2/2023 11:48:22 AM	75306
Iron	18	1.0		mg/L	20	6/2/2023 1:36:17 PM	75306
Magnesium	28	1.0		mg/L	1	6/2/2023 11:48:22 AM	75306
Potassium	7.9	1.0		mg/L	1	6/2/2023 11:48:22 AM	75306
Silver	ND	0.0050		mg/L	1	6/2/2023 11:48:22 AM	75306
Sodium	6.7	1.0		mg/L	1	6/2/2023 11:48:22 AM	75306
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2023 9:06:21 PM	75236
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2023 9:06:21 PM	75236
Surr: DNOP	98.6	54.5-177		%Rec	1	5/30/2023 9:06:21 PM	75236
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/26/2023 6:10:36 PM	GW9704
Surr: BFB	89.5	15-270		%Rec	1	5/26/2023 6:10:36 PM	GW9704

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-5
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:30:00 PM
Lab ID: 2305D44-001 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Toluene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Ethylbenzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Acetone	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Bromodichloromethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Bromoform	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Bromomethane	ND	2.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
2-Butanone	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Carbon disulfide	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Carbon Tetrachloride	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Chlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Chloroethane	ND	2.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Chloroform	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Chloromethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
cis-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Dibromochloromethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Dibromomethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1-Dichloroethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1-Dichloroethene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,2-Dichloropropane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
2-Hexanone	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
4-Methyl-2-pentanone	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Methylene Chloride	ND	2.5		µg/L	1	5/30/2023 4:24:39 PM	R97104
Styrene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
trans-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Trichlorofluoromethane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-5
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:30:00 PM
Lab ID: 2305D44-001 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Vinyl chloride	ND	1.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Xylenes, Total	ND	2.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Acrylonitrile	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Bromochloromethane	ND	2.0		µg/L	1	5/30/2023 4:24:39 PM	R97104
Iodomethane	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
trans-1,4-Dichloro-2-butene	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Vinyl acetate	ND	10		µg/L	1	5/30/2023 4:24:39 PM	R97104
Surr: 1,2-Dichloroethane-d4	111	70-130		%Rec	1	5/30/2023 4:24:39 PM	R97104
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	5/30/2023 4:24:39 PM	R97104
Surr: Dibromofluoromethane	111	70-130		%Rec	1	5/30/2023 4:24:39 PM	R97104
Surr: Toluene-d8	93.9	70-130		%Rec	1	5/30/2023 4:24:39 PM	R97104

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:00:00 PM
Lab ID: 2305D44-002 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SNS**	
Fluoride	ND	0.50		mg/L	5	5/26/2023 3:17:27 AM	A97043
Chloride	1900	100	*	mg/L	200	6/6/2023 1:29:13 PM	R97258
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/26/2023 3:17:27 AM	A97043
Nitrogen, Nitrate (As N)	7.9	0.50		mg/L	5	5/26/2023 3:17:27 AM	A97043
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/26/2023 3:17:27 AM	A97043
Sulfate	680	10	*	mg/L	20	5/26/2023 3:30:19 AM	A97043
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **CAS**	
Conductivity	7200	10		µmhos/c	1	5/30/2023 3:54:49 PM	R97102
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	4590	250	*D	mg/L	1	6/1/2023 5:08:00 PM	75259
SM4500-H+B / 9040C: PH						Analyst: **CAS**	
pH	7.43		H	pH units	1	5/30/2023 3:54:49 PM	R97102
EPA METHOD 6020A: TOTAL METALS						Analyst: **ELS**	
Arsenic	0.0076	0.0050		mg/L	5	6/3/2023 10:31:18 AM	75306
Lead	ND	0.0050		mg/L	5	6/3/2023 10:31:18 AM	75306
Selenium	0.0064	0.0050		mg/L	5	6/5/2023 9:58:14 AM	75306
EPA METHOD 7470A: MERCURY						Analyst: **tem**	
Mercury	ND	0.00020		mg/L	1	5/31/2023 6:30:39 PM	75241
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JRR**	
Barium	0.23	0.0020		mg/L	1	6/2/2023 12:00:41 PM	75306
Cadmium	ND	0.0020		mg/L	1	6/2/2023 12:00:41 PM	75306
Calcium	520	10		mg/L	10	6/2/2023 12:02:15 PM	75306
Chromium	0.0070	0.0060		mg/L	1	6/2/2023 12:00:41 PM	75306
Iron	5.2	0.50		mg/L	10	6/2/2023 12:02:15 PM	75306
Magnesium	120	10		mg/L	10	6/2/2023 12:02:15 PM	75306
Potassium	7.4	1.0		mg/L	1	6/2/2023 12:00:41 PM	75306
Silver	0.0091	0.0050		mg/L	1	6/2/2023 12:00:41 PM	75306
Sodium	980	10		mg/L	10	6/2/2023 12:02:15 PM	75306
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **PRD**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/30/2023 9:30:06 PM	75236
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	5/30/2023 9:30:06 PM	75236
Surr: DNOP	87.8	54.5-177		%Rec	1	5/30/2023 9:30:06 PM	75236
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/26/2023 6:34:08 PM	GW9704
Surr: BFB	80.0	15-270		%Rec	1	5/26/2023 6:34:08 PM	GW9704

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:00:00 PM
Lab ID: 2305D44-002 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Toluene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Ethylbenzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Acetone	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Bromodichloromethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Bromoform	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Bromomethane	ND	2.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
2-Butanone	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Carbon disulfide	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Carbon Tetrachloride	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Chlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Chloroethane	ND	2.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Chloroform	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Chloromethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
cis-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Dibromochloromethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Dibromomethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1-Dichloroethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1-Dichloroethene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,2-Dichloropropane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
2-Hexanone	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
4-Methyl-2-pentanone	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Methylene Chloride	ND	2.5		µg/L	1	5/30/2023 4:52:13 PM	R97104
Styrene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
trans-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Trichlorofluoromethane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:00:00 PM
Lab ID: 2305D44-002 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Vinyl chloride	ND	1.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Xylenes, Total	ND	2.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Acrylonitrile	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Bromochloromethane	ND	2.0		µg/L	1	5/30/2023 4:52:13 PM	R97104
Iodomethane	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
trans-1,4-Dichloro-2-butene	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Vinyl acetate	ND	10		µg/L	1	5/30/2023 4:52:13 PM	R97104
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	5/30/2023 4:52:13 PM	R97104
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	5/30/2023 4:52:13 PM	R97104
Surr: Dibromofluoromethane	116	70-130		%Rec	1	5/30/2023 4:52:13 PM	R97104
Surr: Toluene-d8	94.1	70-130		%Rec	1	5/30/2023 4:52:13 PM	R97104

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: DUPE
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:05:00 PM
Lab ID: 2305D44-003 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **JJP**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/26/2023 6:57:44 PM	GW9704
Surr: BFB	76.2	15-270		%Rec	1	5/26/2023 6:57:44 PM	GW9704
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
Benzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Toluene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Ethylbenzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Acetone	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Bromodichloromethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Bromoform	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Bromomethane	ND	2.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
2-Butanone	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Carbon disulfide	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Carbon Tetrachloride	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Chlorobenzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Chloroethane	ND	2.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Chloroform	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Chloromethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
cis-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Dibromochloromethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Dibromomethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,2-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,4-Dichlorobenzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,1-Dichloroethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,1-Dichloroethene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,2-Dichloropropane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
2-Hexanone	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
4-Methyl-2-pentanone	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Methylene Chloride	ND	2.5		µg/L	1	5/30/2023 5:19:44 PM	R97104
Styrene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
trans-1,2-DCE	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,1,1-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2305D44**
Date Reported: **6/9/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: DUPE
Project: OWL NDBL Landfill
Collection Date: 5/24/2023 2:05:00 PM
Lab ID: 2305D44-003 **Matrix:** AQUEOUS **Received Date:** 5/25/2023 2:23:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES, TABLE I						Analyst: **RAA**	
1,1,2-Trichloroethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Trichloroethene (TCE)	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Trichlorofluoromethane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
1,2,3-Trichloropropane	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Vinyl chloride	ND	1.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Xylenes, Total	ND	2.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Acrylonitrile	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Bromochloromethane	ND	2.0		µg/L	1	5/30/2023 5:19:44 PM	R97104
Iodomethane	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
trans-1,4-Dichloro-2-butene	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Vinyl acetate	ND	10		µg/L	1	5/30/2023 5:19:44 PM	R97104
Surr: 1,2-Dichloroethane-d4	117	70-130		%Rec	1	5/30/2023 5:19:44 PM	R97104
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	5/30/2023 5:19:44 PM	R97104
Surr: Dibromofluoromethane	121	70-130		%Rec	1	5/30/2023 5:19:44 PM	R97104
Surr: Toluene-d8	96.0	70-130		%Rec	1	5/30/2023 5:19:44 PM	R97104

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: A97043	RunNo: 97043
Prep Date:	Analysis Date: 5/25/2023	SeqNo: 3521824 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: A97043	RunNo: 97043
Prep Date:	Analysis Date: 5/25/2023	SeqNo: 3521825 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.2	90	110			
Chloride	4.7	0.50	5.000	0	93.3	90	110			
Nitrogen, Nitrite (As N)	0.94	0.10	1.000	0	94.4	90	110			
Nitrogen, Nitrate (As N)	2.4	0.10	2.500	0	97.6	90	110			
Phosphorus, Orthophosphate (As P)	4.7	0.50	5.000	0	94.3	90	110			
Sulfate	9.6	0.50	10.00	0	96.1	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R97258	RunNo: 97258
Prep Date:	Analysis Date: 6/6/2023	SeqNo: 3532508 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R97258	RunNo: 97258
Prep Date:	Analysis Date: 6/6/2023	SeqNo: 3532509 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R97258	RunNo: 97258
Prep Date:	Analysis Date: 6/6/2023	SeqNo: 3532555 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305D44**

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: **LCS**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R97258**	RunNo: **97258**
Prep Date:	Analysis Date: **6/6/2023**	SeqNo: **3532556** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.2	90	110			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44
09-Jun-23

Client: Parkhill
Project: OWL NDBL Landfill

Sample ID: MB-75306	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals
Client ID: PBW	Batch ID: 75306	RunNo: 97199
Prep Date: 6/1/2023	Analysis Date: 6/3/2023	SeqNo: 3529984 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: MSLCSLL-75306	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals
Client ID: BatchQC	Batch ID: 75306	RunNo: 97199
Prep Date: 6/1/2023	Analysis Date: 6/3/2023	SeqNo: 3529985 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0011	0.0010	0.001000	0	113	70	130			
Lead	0.0011	0.0010	0.001000	0	105	70	130			
Selenium	0.0012	0.0010	0.001000	0	120	70	130			

Sample ID: MSLCS-75306	SampType: LCS	TestCode: EPA Method 6020A: Total Metals
Client ID: LCSW	Batch ID: 75306	RunNo: 97199
Prep Date: 6/1/2023	Analysis Date: 6/3/2023	SeqNo: 3529986 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.049	0.0010	0.05000	0	98.1	80	120			
Lead	0.046	0.0010	0.05000	0	92.1	80	120			
Selenium	0.050	0.0010	0.05000	0	99.1	80	120			

Sample ID: 2305D44-002DMSLL	SampType: MS	TestCode: EPA Method 6020A: Total Metals
Client ID: VZ-6	Batch ID: 75306	RunNo: 97199
Prep Date: 6/1/2023	Analysis Date: 6/3/2023	SeqNo: 3530001 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.060	0.0050	0.05000	0.007631	104	75	125			
Lead	0.052	0.0050	0.05000	0.003134	97.1	75	125			

Sample ID: 2305D44-002DMSDL	SampType: MSD	TestCode: EPA Method 6020A: Total Metals
Client ID: VZ-6	Batch ID: 75306	RunNo: 97199
Prep Date: 6/1/2023	Analysis Date: 6/3/2023	SeqNo: 3530002 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.063	0.0050	0.05000	0.007631	110	75	125	4.53	20	
Lead	0.052	0.0050	0.05000	0.003134	97.3	75	125	0.186	20	

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305D44**

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: **2305D44-002DMSLL**	SampType: **MS**	TestCode: **EPA Method 6020A: Total Metals**							
Client ID: **VZ-6**	Batch ID: **75306**	RunNo: **97208**							
Prep Date: **6/1/2023**	Analysis Date: **6/5/2023**	SeqNo: **3530360**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.062	0.0050	0.05000	0.006409	112	75	125			

Sample ID: **2305D44-002DMSDL**	SampType: **MSD**	TestCode: **EPA Method 6020A: Total Metals**							
Client ID: **VZ-6**	Batch ID: **75306**	RunNo: **97208**							
Prep Date: **6/1/2023**	Analysis Date: **6/5/2023**	SeqNo: **3530361**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.060	0.0050	0.05000	0.006409	108	75	125	3.40	20	

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: MB-75236	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 75236	RunNo: 97083							
Prep Date: 5/30/2023	Analysis Date: 5/31/2023	SeqNo: 3524878	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.58		0.5000		115	54.5	177			

Sample ID: MB-75236	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBW	Batch ID: 75236	RunNo: 97105							
Prep Date: 5/30/2023	Analysis Date: 5/30/2023	SeqNo: 3525359	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.48		0.5000		96.3	54.5	177			

Sample ID: LCS-75236	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: LCSW	Batch ID: 75236	RunNo: 97105							
Prep Date: 5/30/2023	Analysis Date: 5/30/2023	SeqNo: 3525360	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.2	1.0	2.500	0	87.0	68.4	146			
Surr: DNOP	0.23		0.2500		92.0	54.5	177			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44
09-Jun-23

Client: Parkhill
Project: OWL NDBL Landfill

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSW	Batch ID: GW97044	RunNo: 97044
Prep Date:	Analysis Date: 5/26/2023	SeqNo: 3522574 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	98.3	70	130			
Surr: BFB	100		20.00		510	15	270			S

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBW	Batch ID: GW97044	RunNo: 97044
Prep Date:	Analysis Date: 5/26/2023	SeqNo: 3522575 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		84.0	15	270			

Sample ID: 2305d44-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: VZ-5	Batch ID: GW97044	RunNo: 97044
Prep Date:	Analysis Date: 5/26/2023	SeqNo: 3524006 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0.009400	93.5	41.2	148			
Surr: BFB	100		20.00		503	15	270			S

Sample ID: 2305d44-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: VZ-5	Batch ID: GW97044	RunNo: 97044
Prep Date:	Analysis Date: 5/26/2023	SeqNo: 3524007 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0.009400	90.2	41.2	148	3.50	20	
Surr: BFB	100		20.00		515	15	270	0	0	S

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

WO#: 2305D44

Hall Environmental Analysis Laboratory, Inc.

09-Jun-23

Client: Parkhill
Project: OWL NDBL Landfill

Sample ID: 100ng lcs2	SampType: LCS	TestCode: EPA Method 8260B: Volatiles, Table I							
Client ID: LCSW	Batch ID: R97104	RunNo: 97104							
Prep Date:	Analysis Date: 5/30/2023	SeqNo: 3525311	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	109	70	130			
Toluene	19	1.0	20.00	0	94.7	70	130			
Chlorobenzene	18	1.0	20.00	0	91.2	70	130			
1,1-Dichloroethene	21	1.0	20.00	0	103	70	130			
Trichloroethene (TCE)	22	1.0	20.00	0	111	70	130			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.0	70	130			
Surr: Dibromofluoromethane	11		10.00		111	70	130			
Surr: Toluene-d8	8.7		10.00		87.4	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles, Table I							
Client ID: PBW	Batch ID: R97104	RunNo: 97104							
Prep Date:	Analysis Date: 5/30/2023	SeqNo: 3525330	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
Acetone	ND	10								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	2.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles, Table I
Client ID: PBW	Batch ID: R97104	RunNo: 97104
Prep Date:	Analysis Date: 5/30/2023	SeqNo: 3525330 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	2.5								
Styrene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	2.0								
Acrylonitrile	ND	10								
Bromochloromethane	ND	2.0								
Iodomethane	ND	10								
trans-1,4-Dichloro-2-butene	ND	10								
Vinyl acetate	ND	10								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		91.8	70	130			
Surr: Dibromofluoromethane	11		10.00		110	70	130			
Surr: Toluene-d8	9.2		10.00		92.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305D44**

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: **lcs-1 98.8uS eC**	SampType: **lcs**	TestCode: **SM2510B: Specific Conductance**
Client ID: **LCSW**	Batch ID: **R97102**	RunNo: **97102**
Prep Date:	Analysis Date: **5/30/2023**	SeqNo: **3525238** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	98.80	0	103	85	115			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

WO#: 2305D44

Hall Environmental Analysis Laboratory, Inc.

09-Jun-23

Client: Parkhill
Project: OWL NDBL Landfill

Sample ID: MB-75241	SampType: MBLK	TestCode: EPA Method 7470A: Mercury							
Client ID: PBW	Batch ID: 75241	RunNo: 97150							
Prep Date: 5/30/2023	Analysis Date: 5/31/2023	SeqNo: 3527614	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: LCSLL-75241	SampType: LCSLL	TestCode: EPA Method 7470A: Mercury							
Client ID: BatchQC	Batch ID: 75241	RunNo: 97150							
Prep Date: 5/30/2023	Analysis Date: 5/31/2023	SeqNo: 3527615	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	93.5	50	150			

Sample ID: LCS-75241	SampType: LCS	TestCode: EPA Method 7470A: Mercury							
Client ID: LCSW	Batch ID: 75241	RunNo: 97150							
Prep Date: 5/30/2023	Analysis Date: 5/31/2023	SeqNo: 3527621	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0046	0.00020	0.005000	0	92.3	85	115			

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305D44
09-Jun-23

Client: Parkhill
Project: OWL NDBL Landfill

Sample ID: MB-75306	SampType: MBLK	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: PBW	Batch ID: 75306	RunNo: 97173
Prep Date: 6/1/2023	Analysis Date: 6/2/2023	SeqNo: 3529046 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID: LCS-75306	SampType: LCS	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: LCSW	Batch ID: 75306	RunNo: 97173
Prep Date: 6/1/2023	Analysis Date: 6/2/2023	SeqNo: 3529048 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.48	0.0020	0.5000	0	95.5	80	120			
Cadmium	0.48	0.0020	0.5000	0	95.2	80	120			
Calcium	50	1.0	50.00	0	99.6	80	120			
Chromium	0.48	0.0060	0.5000	0	96.8	80	120			
Iron	0.48	0.050	0.5000	0	96.8	80	120			
Magnesium	50	1.0	50.00	0	99.5	80	120			
Potassium	49	1.0	50.00	0	98.0	80	120			
Silver	0.096	0.0050	0.1000	0	95.7	80	120			
Sodium	49	1.0	50.00	0	98.4	80	120			

Sample ID: 2305D44-001DMS	SampType: MS	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: VZ-5	Batch ID: 75306	RunNo: 97173
Prep Date: 6/1/2023	Analysis Date: 6/2/2023	SeqNo: 3529054 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.73	0.0020	0.5000	0.2600	94.3	75	125			
Cadmium	0.47	0.0020	0.5000	0	93.3	75	125			
Chromium	0.49	0.0060	0.5000	0.02168	93.8	75	125			
Magnesium	76	1.0	50.00	28.41	95.5	75	125			
Potassium	57	1.0	50.00	7.947	97.7	75	125			
Silver	0.095	0.0050	0.1000	0	94.8	75	125			
Sodium	54	1.0	50.00	6.683	95.6	75	125			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305D44**

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: **2305D44-001DMSD**	SampType: **MSD**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **VZ-5**	Batch ID: **75306**	RunNo: **97173**
Prep Date: **6/1/2023**	Analysis Date: **6/2/2023**	SeqNo: **3529055** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.73	0.0020	0.5000	0.2600	93.5	75	125	0.561	20	
Cadmium	0.47	0.0020	0.5000	0	93.9	75	125	0.554	20	
Chromium	0.49	0.0060	0.5000	0.02168	93.9	75	125	0.0211	20	
Magnesium	79	1.0	50.00	28.41	101	75	125	3.29	20	
Potassium	57	1.0	50.00	7.947	98.8	75	125	0.945	20	
Silver	0.095	0.0050	0.1000	0	94.6	75	125	0.202	20	
Sodium	55	1.0	50.00	6.683	97.1	75	125	1.43	20	

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305D44**

09-Jun-23

Client: Parkhill

Project: OWL NDBL Landfill

Sample ID: **MB-75259**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **75259**	RunNo: **97152**
Prep Date: **5/31/2023**	Analysis Date: **6/1/2023**	SeqNo: **3527734** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: **LCS-75259**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **75259**	RunNo: **97152**
Prep Date: **5/31/2023**	Analysis Date: **6/1/2023**	SeqNo: **3527735** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	991	50.0	1000	0	99.1	80	120			

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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

Sample Log-In Check List

Client Name: Parkhill Work Order Number: 2305D44 RcptNo: 1

Received By: Tracy Casarrubias 5/25/2023 2:23:00 PM
Completed By: Desiree Dominguez 5/25/2023 3:29:48 PM DD
Reviewed By: JA 5-25-23

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 4
(<2 or >12 unless noted)
Adjusted? No
Checked by: MP 5/25/23
pH strip Lot# : 538534

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Parkhill

Mailing Address: 333 Rio Rancho Blvd NE
Rio Rancho, NM 87124

Phone #: ~~505~~ - 980-525-9426

email or Fax#: ayuhas@parkhill.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush_____

Project Name: OWL NDBL Landfill

Project #: 705322

Project Manager: Andy Yuhas

Sampler: Matt Kingsley

On Ice: ☒ Yes ☐ No marty

# of Coolers: 1

Cooler Temp(including CF): 0.9 - 0 = 0.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2305D44	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Analysis Request: Attached List
5/24	1430	Aq	VZ-5 HCl 5	1 | 2	1	-001								X			X
5/24	1400	↓	VZ-6 5	1 | 2	1	-002								X			X
5/24	1405	↓	Dupe 3	- | -	-	-003								X			

Date:	Time:	Relinquished by:	Received by:	Via: CDO	Date	Time
5/25	1420				5/25/23	14:23
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

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.

Field Parameters	
Specific Conductance	Temperature
pH	Depth to Water
Total Well Depth	
Major Cations	
Calcium	Iron
Magnesium	Potassium
Sodium	
Major Anions	
Fluoride	Chloride
Nitrate as N	Phosphorous
Sulfate	
RCRA Metals	
Arsenic	Lead
Barium	Mercury
Cadmium	Selenium
Chromium	Silver
Organic Compounds	
Benzene	Ethylbenzene
Toluene	Xylenes
Additional Parameters	
Total Dissolved Solids (TDS)	Total Petroleum Hydrocarbons (TPH)

Andrew N. Yuhas, PG
Professional Geologist

Parkhill
505.504.7765 | ayuhas@Parkhill.com

Exhibit C
VZM Well 1-10 Soil vapor screening results
(May 24, 2023)

Vadose Zone Well Vapor Monitoring Form

OWL Landfill Services, LLC

Monitoring Personnel MWK / TK

Date 5/24/23

Weather Information 850 Clear/Sunny

Date, Amount of Last Precipitation: 5/20/23; 0.87

Temp: 85 °F

Wind Speed: 15 mph

Wind Direction: East

Barometric Pressure: 29.96 inches mercury (Hg)

Weather Conditions: Clear

Casing Volume (ft^3) = Radius $(ft)^2$ x π x TD (ft)

Calculated Casinng Volume	
Casing Diameter	Casing Vol/ft
2-inch	0.0218 ft^3/ft
4-inch	0.0873 ft^3/ft

Equipment Information

Monitoring Equipment Used: RKI

Date and Time Last Calibrated: 5/22/23; 1600

Well I.D.	Well Diameter (inches)	Total Well Depth (ftbtoc)	Casing Volume (ft^3)	Purge Start Time	Elapsed Purge Time (min)	Well Vapor Measurements: Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Hydrogen Sulfide Gas (%)	Comments
9	1.5"	53'	1.16	0850	0855	20.5	0.6	0	0	
10	1.5"	50.7	1.11	0900	0905	20.5	1.64%	0	0	
8	1.5"	37.85	0.83	0907	0913	20.5	0.64%	0	0	
7	1.5"	44.75	0.97	0920	0924	20.4	1.18%	0	0	
6	1.5"	62.15	1.36	0930	0940	20.2	14 ppm	0	0	
5	1.5"	56.5	1.23	0957	1005	20.0	0.5%	0	0	
4	1.5"	50.5	1.10	1110	1118	20.3	1.34%	0	0	
2	1.5"	42.1	0.92	1125	1131	20.4	0.44%	0	0	
2	1.5"	43.9	0.96	1140	1143	20.4	0.5%	0	0	
1	1.5"	51.5	1.12	1147	1151	20.4	0.3%	0	0	

Parkhill

November 17, 2023

Mr. Tim Shreve
Director of Landfill Operations, NDBL
OWL Landfill Services, LLC
2029 W. NM Hwy 128
Jal, NM 88252

Re: 40720.23 Northern Delaware Basin Landfill
Surface Waste Disposal Facility – NMOSE Permit No. NM1-63
Vadose Zone Monitoring Well Data, October 11, 2023, Monitoring Event
Lea County, New Mexico

Dear Mr. Shreve:

Enclosed with this letter are copies of groundwater purging, testing, analytical, and soil vapor field screening data collected from vadose zone monitoring wells at the Northern Delaware Basin Landfill (NDBL) on October 11, 2023 (Exhibit A). Vadose water sample collection, field screening and analysis were triggered by the detection of water in vadose zone monitoring wells VZ-5 and VZ-6 during routine semiannual vadose zone monitoring (Exhibit B). This monitoring event represents the second time water has been detected in one or more vadose wells at NDBL, and the first detection of sampleable water in vadose well VZ-6.

Vadose water and soil vapor samples were collected and analyzed in accordance with requirements for Vadose Zone Monitoring set forth in Permit No. NM1-63 (August 17, 2017), and the Vadose Zone Monitoring Plan (Volume II.9) of the October 2016 facility Permit Application. Vadose water samples were collected from Wells VZ-5 and VZ-6, and soil vapor samples were collected from each of the 10 vadose zone wells in the well network (VZ-1 through VZ-10). Vadose water samples were delivered to Hall Environmental Analysis Labs (HEAL) in Albuquerque, New Mexico on October 12, 2023, and analytical results were received on October 31, 2023.

VADOSE WATER ANALYTICAL RESULTS

Water was detected in vadose wells VZ-1, VZ-4, VZ-5, VZ-6, and VZ-8. Water detected in wells VZ-1, VZ-4 and VZ-8 was insufficient to collect a representative sample (i.e., water column ranging from 2.6 feet to less than 1.5 inches) and is believed to be a result of condensation collecting in the bottom of the well. Samples were collected from wells VZ-5 and VZ-6 and analyzed for Method 8260 volatile organic compounds (VOCs) as well as the list of analytes in the OWL Vadose Zone Monitoring Plan (Volume II.9 of the October 2016 Facility Permit Application). Vadose zone purge notes and field parameter measurements for wells VZ-5 and VZ-6 are provided as Exhibit C, and laboratory analytical results for samples collected on October 11, 2023, are provided as Exhibit D.

Well VZ-5

Perched water was detected at a depth of 42.65 feet below top of well casing (BTOC) in well VZ-5, consistent with depth to water (DTW) measured on February 23, 2020, and May 24, 2023. Analytical results remain consistent with results from samples collected in February 2020 and May 2023, and the water is believed to consist mainly of perched stormwater that regularly percolates through vadose soils and perches atop the largely impenetrable Chinle mudstone strata which are continuous at depths ranging from 35 to 60 feet below ground surface at NDBL.

333 Rio Rancho Boulevard NE | Suite 400 | Rio Rancho, New Mexico 87124 | 505.867.6990 Parkhill.com

Well VZ-6

Water was not present in VZ-6 upon installation in August 2019, and was not detected during the February 2020 vadose zone monitoring event by Parkhill. During the May 2023 monitoring event, perched water was detected at a depth of 33.2 feet BTOC. During a follow-up site visit by Parkhill on August 17, 2023, the suspected source of water in well VZ-6 was thought to be a persistent leak from a water supply line which is positioned approximately 50 feet east-northeast of VZ-6. The presence of moisture and indications of leakage from the supply line were observed and brought to the attention of NDBL management (Figure 2). The leak was stopped on August 19, 2023, and the ground surface in the area has remained dry. The supply line originates at the NDBL water supply well (McCloy Well) shown on Figure 1 and terminates at a set of three storage tanks used for on-site use (positioned approximately 125 feet north-northeast of the supply well). During the October 2023 monitoring event, perched water was detected at a depth of 33.21 feet BTOC in VZ-6.

Upon review of analytical results obtained from HEAL on October 31, 2023 (Exhibit D), it was observed that the levels of multiple cations and anions in Well VZ-6 were elevated when compared to results from vadose well VZ-5 and other groundwater in the area. Results were very similar to those obtained during the May 2023 monitoring event. These analytes are indicative of normally dry arid desert soils (e.g., vadose zone soils, evaporites, playa deposits) and leaching/mobilization of those constituents by infiltrating surface waters (stormwater runoff) or introduced waters (i.e., leakage). The combination of supply line leakage proximal to well VZ-6, substantial seasonal rains over recent months, and ongoing facility grading and channeling of stormwater have likely contributed to detected and sampled waters found in well VZ-6.

POTENTIAL SOURCES OF VADOSE WATER

Well VZ-4 and VZ-5

Wells VZ-4 and VZ-5 are located in areas immediately adjacent to natural depressions that collect stormwater as a result of natural surface water flow and accumulation during storm events. This results in accumulation of surface water during storm events and infiltration into the vadose zone. The area is mapped with closed depressions, and aerial photos indicate the presence of well-established green vegetation.

Well VZ-6

Water in well VZ-6 is of very poor (brackish) quality, containing elevated levels of highly soluble and highly mobile cations and anions. Soluble minerals like those detected in vadose water samples have likely been mobilized from the overlying soils by recently-introduced supply well water infiltrating through the higher-permeability vadose zone and becoming perched atop and within the largely impermeable upper Chinle mudstones which occur site-wide at depths ranging from 35-60 feet BGS. Geology of the vadose zone at ground surface near VZ-6 may also contribute to perched vadose water quality. Surficial geology mapped near well VZ-6 is characterized as windblown fine-grained sands, while higher-permeability Ogallala formation sands and gravels are mapped at Wells VZ-4 and VZ-5. The fine windblown sands which make up much of the vadose soils in the vicinity of VZ-6 have likely been mobilized from surface evaporite deposits, which are prominent in the region as shallow enclosed surface basins and playas, which are high in chloride, sulfate, calcium, magnesium, and sodium. Well VZ-6 is also hydraulically upgradient from the landfill solid waste disposal area footprint. Additionally, the water sampled from VZ-6 does not contain constituents potentially present in landfill waste (i.e., BTEX, TPH, volatiles, etc.). Therefore, the water sampled from well VZ-6 is not believed to be indicative of impacts from waste operations and is believed to be from a source other than the landfill.

NDBL will continue to monitor all vadose wells on site semiannually for the presence of water, and collect samples when water is detected in sufficient quantities. NDBL will also monitor for leakage in their water supply network and make efforts to grade the site such that surface water is directed away from VZ-6 to prevent unnecessary infiltration of surface and supply waters into the vadose zone in the vicinity of the well.

Average annual rainfall in the area around NDBL is approximately 13.70 inches per year (1981-2010 average) as reported by the Western Regional Climate Center for the Jal, WIPP and Ochoa Co-op Stations. two personal weather stations near NDBL (El Capitan and Red Hills) have recorded a total YTD rainfall of slightly less than 8" of precipitation through November 16, which is significantly lower than annual average, but both stations show a wetter than typical May and June (Exhibit F).

As required by 19.15.36.13.L.(1), NDBL has performed monthly inspection the facility's leak detection sumps, and all have been found to be dry.

Parkhill has performed a review of the analytical results and has found no analytes detected that would indicate impacts from the landfill (i.e., hydrocarbons, BTEX, VOCs, etc.). Attached are files containing copies of the purge notes (Exhibit A) and laboratory analytical report (Exhibit D) for vadose water samples collected from Wells VZ-5 and VZ-6, as well as soil vapor screening data taken from each of the 10 vadose zone wells at the facility (Exhibit E). If you have any questions regarding this transmittal, feel free to contact me at 505.504.7765.

Sincerely,

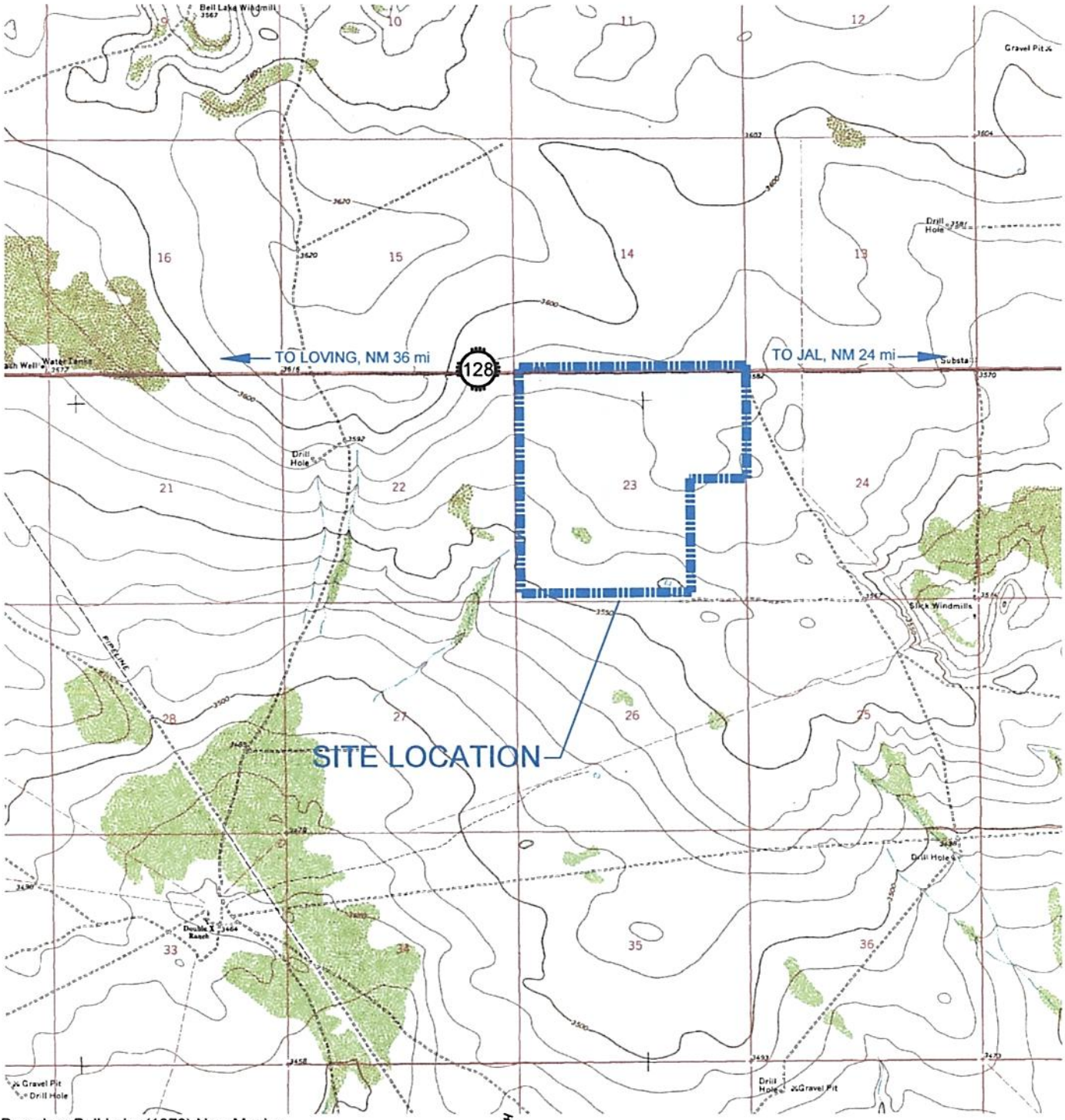
PARKHILL

By _____
Andy N. Yuhas, PG
Professional Geologist

ANY/pg
Enclosures:
Exhibit A: Site Location Map
Exhibit B: Site Plan/VZM Network Map
Exhibit C: VZM Purge Notes and Field Parameters
Exhibit D: Hall Environmental Analysis Laboratory analytical report for Wells VZ-5 and VZ-6
Exhibit E: VZM Well 1-10 Soil vapor screening results
Exhibit F: Nearby Weather Station Precipitation Data

cc: Mr. Matt Kingsley, PE, Principal, Parkhill

EXHIBIT A: SITE LOCATION MAP



Based on Bell Lake (1973) New Mexico Quadrangle. USGS 7.5' Series (1:24,000 Scale).

NORTH

0' 1,000'

LEGEND

SITE BOUNDARY

FILE NAME: A:\2023\40720.23\03_DSGN\01_DWG\050_CIVIL\03_VZMEX-A_SITE-LOC-MAP.dwg PRINTED: Thursday, November 16, 2023 - 2:36pm

Parkhill

Parkhill.com

SEMI-ANNUAL VADOSE ZONE MONITORING

OWL NDBL SWMF

JAL, NEW MEXICO

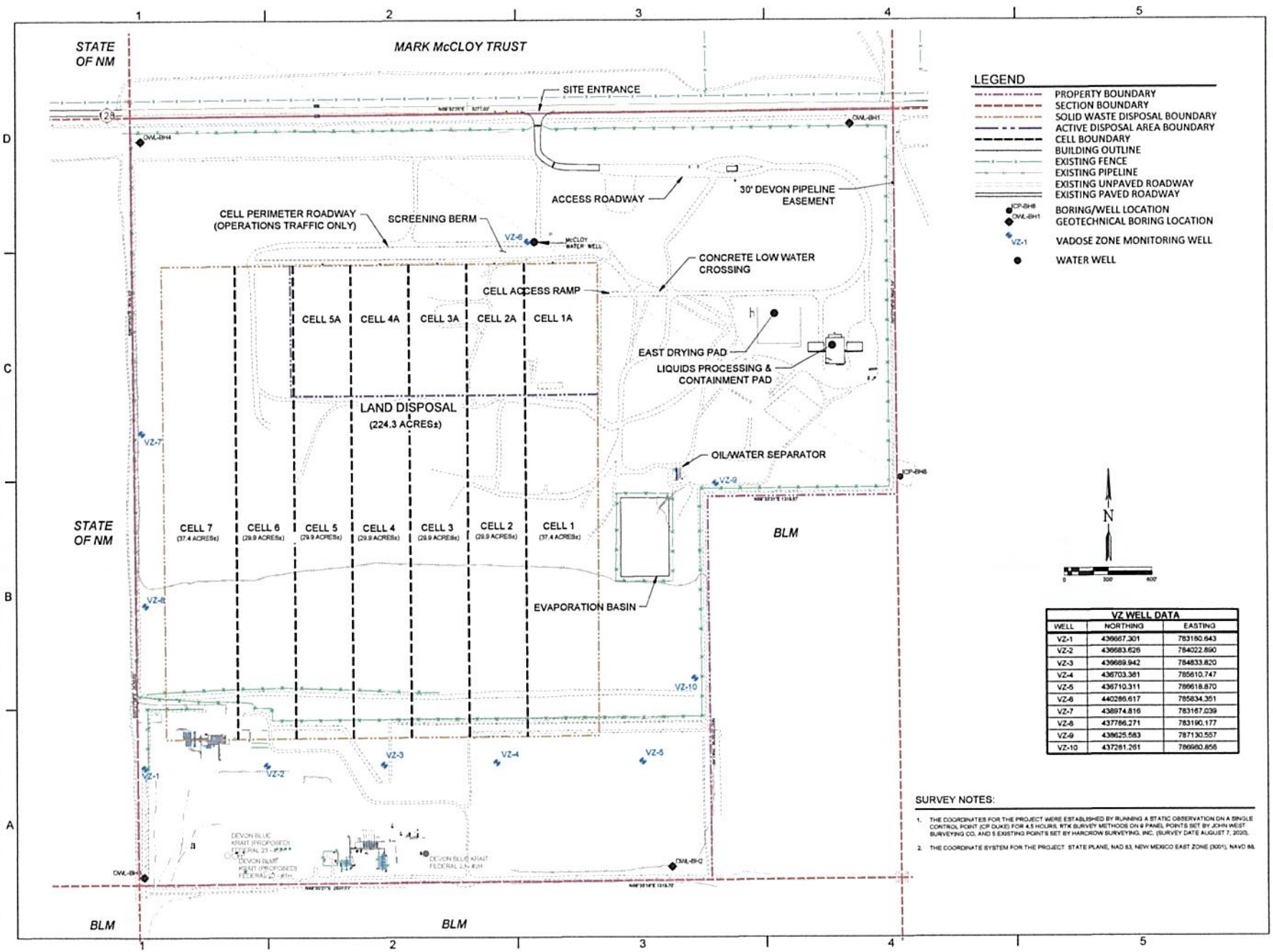
SITE LOCATION MAP

Date: 11/17/2023

Project No: 40720.23

Sheet: EXHIBIT A

EXHIBIT B: SITE PLAN/VZM NETWORK MAP



LEGEND

- PROPERTY BOUNDARY
- SECTION BOUNDARY
- SOLID WASTE DISPOSAL BOUNDARY
- ACTIVE DISPOSAL AREA BOUNDARY
- CELL BOUNDARY
- BUILDING OUTLINE
- EXISTING FENCE
- EXISTING PIPELINE
- EXISTING UNPAVED ROADWAY
- EXISTING PAVED ROADWAY
- ICP-BH6 / OWL-BH1 — BORING/WELL LOCATION / GEOTECHNICAL BORING LOCATION
- VZ-1 — VADOSE ZONE MONITORING WELL
- WATER WELL

VZ WELL DATA		
WELL	NORTHING	EASTING
VZ-1	436667.301	783180.643
VZ-2	436683.626	784022.890
VZ-3	436689.942	784833.820
VZ-4	436703.381	785610.747
VZ-5	436710.311	786618.870
VZ-6	440286.617	785834.351
VZ-7	438974.816	783167.039
VZ-8	437786.271	783190.177
VZ-9	438625.583	787130.557
VZ-10	437261.261	786980.856

SURVEY NOTES:

1. THE COORDINATES FOR THE PROJECT WERE ESTABLISHED BY RUNNING A STATIC OBSERVATION ON A SINGLE CONTROL POINT (CP DUKE) FOR 4.5 HOURS, RTK SURVEY METHODS ON 9 PANEL POINTS SET BY JOHN WEST SURVEYING CO. AND 5 EXISTING POINTS SET BY HARCROW SURVEYING, INC. (SURVEY DATE AUGUST 7, 2020).
2. THE COORDINATE SYSTEM FOR THE PROJECT: STATE PLANE, NAD 83, NEW MEXICO EAST ZONE (3001), NAVD 88.

Parkhill

Parkhill.com

OWL NDBL SWMF ENVIRONMENTAL MONITORING NETWORK

OILFIELD WATER LOGISTICS

CLIENT
OWL LANDFILL SERVICES, LLC.
2029 W. NM Hwy 126
JAL, NM 88252
LEA COUNTY

PROJECT NO.
40720.23

#	DATE	DESCRIPTION
1	10/11/2023	MONITORING REPORT

SITE PLAN/ VZM NETWORK MAP

EXHIBIT B

EXHIBIT C: VZM PURGE NOTES AND FIELD PARAMETERS

Groundwater Monitoring Field Notes

Site: OWL

Samplers: TZ

Observers: —

Site/Well Condition: good/good

Well ID: LG-6

Depth-to-water: 33.21

Total Depth: 62.10

Measured from: Top of PVC

Date: 10/11/23

Ambient Temperature: 89

Wind Direction/Speed: 5-10 mph SE

Recent Precipitation: none

Sampling Method: BAILER

One Well Volume (feet, gallons)

(62.10 - 33.21) = 28.89 feet

(Total Depth - DTW) = well column

28.89 x 0.163 = 4.71 gallons

(Well Column x 0.163) = 1 well-volume

Three Well Volumes

4.71 x 3 = 14.13 gallons

1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed

Capacity/Length: 1 L / 36"

Material/Source poly

Twine

New? (Y) or N

Appx Length 70

Material/Source nylon

Time	~~Gallons~~ Gallons Removed	°C	pH	SC units mS	Observations
1513	1L	21.7	7.28	7.05	clear, no odor
1519	3L	21.0	7.3	7.02	" "
1522	1	20.4	7.2	6.86	" "
1527	2	21.0	7.3	6.89	" "
1531	3	20.6	7.2	6.68	" "
1535	4	20.6	7.2	6.56	" "
1538	5	20.6	7.2	6.61	" "

Notes: Sample Start 1545

Field Blank: —

Dupe: no

Filtered: no

Sampler(s): Tyler Zack

Name

Signature

Name

Signature

Site: CWL

Samplers: TB

Observers: —

Site/Well Condition: good / good

Well ID: VE-5

Depth-to-water: 42.65

Total Depth: 56.9

Measured from: Top of PVC

Date: 10/11/23

Ambient Temperature: 89

Wind Direction/Speed: 5-10mph SE

Recent Precipitation: none

Sampling Method: BAILER

One Well Volume (feet, gallons) (56.9 - 42.65) = 14.25 feet
(Total Depth - DTW) = well column

14.25 x 0.163 = 2.32 gallons
(Well Column x 0.163) = 1 well-volume

Three Well Volumes 2.32 x 3 = 6.97 gallons
1 well-volume x 3 = 3 well-volumes

Equipment Information

Bailer or HydraSleeve™

New or Previously Installed
Capacity/Length: 1 L / 36"
Material/Source: Poly

Twine
New? Y or (N)
Appx Length: 20
Material/Source: —

Time	Gallons Removed	°C	pH	SC units µS	Observations
1627	0.25	21.0	7.6	563	Cloudy, no odor
1632	1.0	20.7	7.6	534	" "
1635	2.0	20.8	7.6	538	" "
1637	2.5	20.8	7.6	538	" "

Notes: Sample Time: 1645

Field Blank: 1656

Dupe: NO

Filtered: NO

Sampler(s): Tyler Zack
Name
Signature

Name
Signature

Groundwater Monitoring Field Notes

EXHIBIT D: HALL ENVIRONMENTAL ANALYSIS LABORATORY ANALYTICAL REPORT FOR WELLS VZ-5 AND VZ-6

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

October 31, 2023

Andy Yuhas
Parkhill
333 Rio Rancho Blvd. N.E., Suite 400
Rio Rancho, NM 87124
TEL: (505) 867-6990
FAX: (505) 867-6991

RE: OWL Vadose Zone Monitoring OrderNo.: 2310624

Dear Andy Yuhas:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/12/2023 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-5
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 4:45:00 PM
Lab ID: 2310624-001 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	2.2	0.50		mg/L	5	10/12/2023 2:34:44 PM	R100444
Chloride	4.4	2.5		mg/L	5	10/12/2023 2:34:44 PM	R100444
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/12/2023 2:34:44 PM	R100444
Nitrogen, Nitrate (As N)	8.4	0.50		mg/L	5	10/12/2023 2:34:44 PM	R100444
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/12/2023 2:34:44 PM	R100444
Sulfate	8.9	2.5		mg/L	5	10/12/2023 2:34:44 PM	R100444
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MRA**	
Conductivity	470	10		µmhos/c	1	10/17/2023 12:45:10 PM	R100536
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**	
Total Dissolved Solids	310	250	D	mg/L	1	10/17/2023 2:55:00 PM	78174
SM4500-H+B / 9040C: PH						Analyst: **MRA**	
pH	7.86		H	pH units	1	10/17/2023 12:45:10 PM	R100536
EPA METHOD 6020A: TOTAL METALS						Analyst: **ELS**	
Arsenic	0.014	0.0010		mg/L	1	10/23/2023 11:42:53 AM	78165
Lead	0.0061	0.0010		mg/L	1	10/23/2023 11:42:53 AM	78165
Selenium	0.0015	0.0010		mg/L	1	10/24/2023 12:58:26 PM	78165
EPA METHOD 7470A: MERCURY						Analyst: **tem**	
Mercury	ND	0.00020		mg/L	1	10/18/2023 5:17:36 PM	78184
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **VP**	
Barium	0.27	0.0020		mg/L	1	10/18/2023 1:59:02 PM	78165
Cadmium	ND	0.0020		mg/L	1	10/18/2023 1:59:02 PM	78165
Calcium	95	5.0		mg/L	5	10/18/2023 2:05:00 PM	78165
Chromium	0.012	0.0060		mg/L	1	10/18/2023 1:59:02 PM	78165
Iron	10	1.0		mg/L	20	10/20/2023 9:38:54 AM	78165
Magnesium	27	1.0		mg/L	1	10/18/2023 1:59:02 PM	78165
Potassium	6.5	1.0		mg/L	1	10/18/2023 1:59:02 PM	78165
Silver	ND	0.0050		mg/L	1	10/18/2023 1:59:02 PM	78165
Sodium	12	1.0		mg/L	1	10/18/2023 1:59:02 PM	78165
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/17/2023 12:22:05 PM	78192
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/17/2023 12:22:05 PM	78192
Surr: DNOP	73.2	54.5-177		%Rec	1	10/17/2023 12:22:05 PM	78192
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/17/2023 5:02:00 PM	GW1005
Surr: BFB	101	15-270		%Rec	1	10/17/2023 5:02:00 PM	GW1005

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-5
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 4:45:00 PM
Lab ID: 2310624-001 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Toluene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Ethylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Naphthalene	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
2-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Acetone	ND	10		µg/L	1	10/19/2023 1:38:53 AM	R100563
Bromobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Bromodichloromethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Bromoform	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Bromomethane	ND	3.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
2-Butanone	ND	10		µg/L	1	10/19/2023 1:38:53 AM	R100563
Carbon disulfide	ND	10		µg/L	1	10/19/2023 1:38:53 AM	R100563
Carbon Tetrachloride	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Chlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Chloroethane	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Chloroform	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Chloromethane	ND	3.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
2-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
4-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
cis-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Dibromochloromethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Dibromomethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1-Dichloroethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1-Dichloroethene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,3-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
2,2-Dichloropropane	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-5
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 4:45:00 PM
Lab ID: 2310624-001 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Hexachlorobutadiene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
2-Hexanone	ND	10		µg/L	1	10/19/2023 1:38:53 AM	R100563
Isopropylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
4-Isopropyltoluene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
4-Methyl-2-pentanone	ND	10		µg/L	1	10/19/2023 1:38:53 AM	R100563
Methylene Chloride	ND	3.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
n-Butylbenzene	ND	3.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
n-Propylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
sec-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Styrene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
tert-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
trans-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Trichlorofluoromethane	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Vinyl chloride	ND	1.0		µg/L	1	10/19/2023 1:38:53 AM	R100563
Xylenes, Total	ND	1.5		µg/L	1	10/19/2023 1:38:53 AM	R100563
Surr: 1,2-Dichloroethane-d4	86.0	70-130		%Rec	1	10/19/2023 1:38:53 AM	R100563
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	10/19/2023 1:38:53 AM	R100563
Surr: Dibromofluoromethane	98.2	70-130		%Rec	1	10/19/2023 1:38:53 AM	R100563
Surr: Toluene-d8	94.4	70-130		%Rec	1	10/19/2023 1:38:53 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 3:45:00 PM
Lab ID: 2310624-002 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Fluoride	1.1	0.50		mg/L	5	10/12/2023 3:51:56 PM	R100444
Chloride	1800	100	*	mg/L	200	10/23/2023 3:40:25 PM	R100676
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	10/12/2023 3:51:56 PM	R100444
Nitrogen, Nitrate (As N)	9.2	0.50		mg/L	5	10/12/2023 3:51:56 PM	R100444
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	10/12/2023 3:51:56 PM	R100444
Sulfate	640	10	*	mg/L	20	10/12/2023 4:04:47 PM	R100444
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **MRA**	
Conductivity	6700	10		µmhos/c	1	10/17/2023 12:49:37 PM	R100536
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **MCA**	
Total Dissolved Solids	4280	100	*D	mg/L	1	10/17/2023 2:55:00 PM	78174
SM4500-H+B / 9040C: PH						Analyst: **MRA**	
pH	7.41		H	pH units	1	10/17/2023 12:49:37 PM	R100536
EPA METHOD 6020A: TOTAL METALS						Analyst: **ELS**	
Arsenic	0.0047	0.0010		mg/L	1	10/23/2023 11:46:38 AM	78165
Lead	ND	0.0010		mg/L	1	10/23/2023 11:46:38 AM	78165
Selenium	0.0083	0.0010		mg/L	1	10/25/2023 10:28:49 AM	78165
EPA METHOD 7470A: MERCURY						Analyst: **tem**	
Mercury	ND	0.00020		mg/L	1	10/18/2023 5:19:56 PM	78184
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **VP**	
Barium	0.37	0.0020		mg/L	1	10/18/2023 2:21:25 PM	78165
Cadmium	ND	0.0020		mg/L	1	10/18/2023 2:21:25 PM	78165
Calcium	440	5.0		mg/L	5	10/18/2023 2:23:20 PM	78165
Chromium	ND	0.0060		mg/L	1	10/18/2023 2:21:25 PM	78165
Iron	1.4	0.25		mg/L	5	10/18/2023 2:23:20 PM	78165
Magnesium	100	5.0		mg/L	5	10/18/2023 2:23:20 PM	78165
Potassium	6.2	1.0		mg/L	1	10/18/2023 2:21:25 PM	78165
Silver	0.011	0.0050		mg/L	1	10/18/2023 2:21:25 PM	78165
Sodium	890	10		mg/L	10	10/20/2023 9:36:49 AM	78165
EPA METHOD 8015M/D: DIESEL RANGE						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/17/2023 12:32:45 PM	78192
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	10/17/2023 12:32:45 PM	78192
Surr: DNOP	82.8	54.5-177		%Rec	1	10/17/2023 12:32:45 PM	78192
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **KMN**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/17/2023 3:57:00 PM	GW1005
Surr: BFB	102	15-270		%Rec	1	10/17/2023 3:57:00 PM	GW1005

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 3:45:00 PM
Lab ID: 2310624-002 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Toluene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Ethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Naphthalene	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
2-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Acetone	ND	10		µg/L	1	10/19/2023 2:06:56 AM	R100563
Bromobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Bromodichloromethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Bromoform	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Bromomethane	ND	3.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
2-Butanone	ND	10		µg/L	1	10/19/2023 2:06:56 AM	R100563
Carbon disulfide	ND	10		µg/L	1	10/19/2023 2:06:56 AM	R100563
Carbon Tetrachloride	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Chlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Chloroethane	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Chloroform	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Chloromethane	ND	3.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
2-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
4-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
cis-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Dibromochloromethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Dibromomethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1-Dichloroethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1-Dichloroethene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,3-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
2,2-Dichloropropane	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: VZ-6
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 3:45:00 PM
Lab ID: 2310624-002 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Hexachlorobutadiene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
2-Hexanone	ND	10		µg/L	1	10/19/2023 2:06:56 AM	R100563
Isopropylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
4-Isopropyltoluene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
4-Methyl-2-pentanone	ND	10		µg/L	1	10/19/2023 2:06:56 AM	R100563
Methylene Chloride	ND	3.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
n-Butylbenzene	ND	3.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
n-Propylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
sec-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Styrene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
tert-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
trans-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Trichlorofluoromethane	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Vinyl chloride	ND	1.0		µg/L	1	10/19/2023 2:06:56 AM	R100563
Xylenes, Total	ND	1.5		µg/L	1	10/19/2023 2:06:56 AM	R100563
Surr: 1,2-Dichloroethane-d4	90.0	70-130		%Rec	1	10/19/2023 2:06:56 AM	R100563
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/19/2023 2:06:56 AM	R100563
Surr: Dibromofluoromethane	96.3	70-130		%Rec	1	10/19/2023 2:06:56 AM	R100563
Surr: Toluene-d8	93.8	70-130		%Rec	1	10/19/2023 2:06:56 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: Field Blank
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 4:56:00 PM
Lab ID: 2310624-003 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Toluene	1.5	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Ethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Naphthalene	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
2-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Acetone	ND	10		µg/L	1	10/19/2023 2:34:54 AM	R100563
Bromobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Bromodichloromethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Bromoform	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Bromomethane	ND	3.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
2-Butanone	ND	10		µg/L	1	10/19/2023 2:34:54 AM	R100563
Carbon disulfide	ND	10		µg/L	1	10/19/2023 2:34:54 AM	R100563
Carbon Tetrachloride	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Chlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Chloroethane	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Chloroform	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Chloromethane	ND	3.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
2-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
4-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
cis-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Dibromochloromethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Dibromomethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1-Dichloroethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1-Dichloroethene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,3-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
2,2-Dichloropropane	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Client Sample ID: Field Blank
Project: OWL Vadose Zone Monitoring
Collection Date: 10/11/2023 4:56:00 PM
Lab ID: 2310624-003 **Matrix:** AQUEOUS **Received Date:** 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Hexachlorobutadiene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
2-Hexanone	ND	10		µg/L	1	10/19/2023 2:34:54 AM	R100563
Isopropylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
4-Isopropyltoluene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
4-Methyl-2-pentanone	ND	10		µg/L	1	10/19/2023 2:34:54 AM	R100563
Methylene Chloride	ND	3.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
n-Butylbenzene	ND	3.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
n-Propylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
sec-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Styrene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
tert-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
trans-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Trichlorofluoromethane	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Vinyl chloride	ND	1.0		µg/L	1	10/19/2023 2:34:54 AM	R100563
Xylenes, Total	ND	1.5		µg/L	1	10/19/2023 2:34:54 AM	R100563
Surr: 1,2-Dichloroethane-d4	82.5	70-130		%Rec	1	10/19/2023 2:34:54 AM	R100563
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	10/19/2023 2:34:54 AM	R100563
Surr: Dibromofluoromethane	93.1	70-130		%Rec	1	10/19/2023 2:34:54 AM	R100563
Surr: Toluene-d8	94.8	70-130		%Rec	1	10/19/2023 2:34:54 AM	R100563

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	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Project: OWL Vadose Zone Monitoring
Lab ID: 2310624-004 **Matrix:** TRIP BLANK

Client Sample ID: Trip Blank
Collection Date:
Received Date: 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
Benzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Toluene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Ethylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Naphthalene	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
2-Methylnaphthalene	ND	4.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Acetone	ND	10		µg/L	1	10/19/2023 3:03:10 AM	R100563
Bromobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Bromodichloromethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Bromoform	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Bromomethane	ND	3.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
2-Butanone	ND	10		µg/L	1	10/19/2023 3:03:10 AM	R100563
Carbon disulfide	ND	10		µg/L	1	10/19/2023 3:03:10 AM	R100563
Carbon Tetrachloride	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Chlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Chloroethane	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Chloroform	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Chloromethane	ND	3.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
2-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
4-Chlorotoluene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
cis-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Dibromochloromethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Dibromomethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1-Dichloroethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1-Dichloroethene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,3-Dichloropropane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
2,2-Dichloropropane	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2310624**
Date Reported: **10/31/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Parkhill
Project: OWL Vadose Zone Monitoring
Lab ID: 2310624-004
Client Sample ID: Trip Blank
Collection Date:
Matrix: TRIP BLANK
Received Date: 10/12/2023 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JR**	
1,1-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Hexachlorobutadiene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
2-Hexanone	ND	10		µg/L	1	10/19/2023 3:03:10 AM	R100563
Isopropylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
4-Isopropyltoluene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
4-Methyl-2-pentanone	ND	10		µg/L	1	10/19/2023 3:03:10 AM	R100563
Methylene Chloride	ND	3.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
n-Butylbenzene	ND	3.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
n-Propylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
sec-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Styrene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
tert-Butylbenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
trans-1,2-DCE	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Trichlorofluoromethane	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Vinyl chloride	ND	1.0		µg/L	1	10/19/2023 3:03:10 AM	R100563
Xylenes, Total	ND	1.5		µg/L	1	10/19/2023 3:03:10 AM	R100563
Surr: 1,2-Dichloroethane-d4	87.3	70-130		%Rec	1	10/19/2023 3:03:10 AM	R100563
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/19/2023 3:03:10 AM	R100563
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	10/19/2023 3:03:10 AM	R100563
Surr: Toluene-d8	95.3	70-130		%Rec	1	10/19/2023 3:03:10 AM	R100563

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R100444	RunNo: 100444
Prep Date:	Analysis Date: 10/12/2023	SeqNo: 3679889 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R100444	RunNo: 100444
Prep Date:	Analysis Date: 10/12/2023	SeqNo: 3679890 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.5	90	110			
Chloride	4.7	0.50	5.000	0	94.0	90	110			
Nitrogen, Nitrite (As N)	1.1	0.10	1.000	0	107	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.8	90	110			
Phosphorus, Orthophosphate (As P)	4.6	0.50	5.000	0	91.9	90	110			
Sulfate	9.6	0.50	10.00	0	95.7	90	110			

Sample ID: 2310624-001CMS	SampType: ms	TestCode: EPA Method 300.0: Anions
Client ID: VZ-5	Batch ID: R100444	RunNo: 100444
Prep Date:	Analysis Date: 10/12/2023	SeqNo: 3679899 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.5	0.50	2.500	2.248	88.8	70	130			
Chloride	27	2.5	25.00	4.430	89.0	80	120			
Nitrogen, Nitrite (As N)	5.1	0.50	5.000	0	102	80	120			
Nitrogen, Nitrate (As N)	21	0.50	12.50	8.398	96.9	80	120			
Phosphorus, Orthophosphate (As P)	22	2.5	25.00	0	89.2	80	120			
Sulfate	55	2.5	50.00	8.866	91.7	80	120			

Sample ID: 2310624-001CMSD	SampType: msd	TestCode: EPA Method 300.0: Anions
Client ID: VZ-5	Batch ID: R100444	RunNo: 100444
Prep Date:	Analysis Date: 10/12/2023	SeqNo: 3679900 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.5	0.50	2.500	2.248	89.0	70	130	0.157	20	
Chloride	27	2.5	25.00	4.430	90.6	80	120	1.54	20	
Nitrogen, Nitrite (As N)	5.2	0.50	5.000	0	104	80	120	1.40	20	
Nitrogen, Nitrate (As N)	21	0.50	12.50	8.398	98.6	80	120	1.04	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: 2310624-001CMSD	SampType: msd	TestCode: EPA Method 300.0: Anions							
Client ID: VZ-5	Batch ID: R100444	RunNo: 100444							
Prep Date:	Analysis Date: 10/12/2023	SeqNo: 3679900	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus, Orthophosphate (As P)	23	2.5	25.00	0	90.8	80	120	1.79	20	
Sulfate	55	2.5	50.00	8.866	92.8	80	120	1.08	20	

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions							
Client ID: PBW	Batch ID: R100676	RunNo: 100676							
Prep Date:	Analysis Date: 10/23/2023	SeqNo: 3691804	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: LCS	SampType: lcs	TestCode: EPA Method 300.0: Anions							
Client ID: LCSW	Batch ID: R100676	RunNo: 100676							
Prep Date:	Analysis Date: 10/23/2023	SeqNo: 3691806	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	93.4	90	110			

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: MB-78165	SampType: MBLK	TestCode: EPA Method 6020A: Total Metals
Client ID: PBW	Batch ID: 78165	RunNo: 100628
Prep Date: 10/16/2023	Analysis Date: 10/20/2023	SeqNo: 3689346 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0010								
Lead	ND	0.0010								
Selenium	ND	0.0010								

Sample ID: MSLCSLL-78165	SampType: LCSLL	TestCode: EPA Method 6020A: Total Metals
Client ID: BatchQC	Batch ID: 78165	RunNo: 100628
Prep Date: 10/16/2023	Analysis Date: 10/20/2023	SeqNo: 3689347 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0010	0.0010	0.001000	0	104	70	130			
Lead	0.0010	0.0010	0.001000	0	103	70	130			
Selenium	0.0012	0.0010	0.001000	0	122	70	130			

Sample ID: MSLCS-78165	SampType: LCS	TestCode: EPA Method 6020A: Total Metals
Client ID: LCSW	Batch ID: 78165	RunNo: 100628
Prep Date: 10/16/2023	Analysis Date: 10/20/2023	SeqNo: 3689348 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.050	0.0010	0.05000	0	100	80	120			
Lead	0.051	0.0010	0.05000	0	101	80	120			
Selenium	0.049	0.0010	0.05000	0	98.5	80	120			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: LCS-78192	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range
Client ID: LCSW	Batch ID: 78192	RunNo: 100506
Prep Date: 10/17/2023	Analysis Date: 10/17/2023	SeqNo: 3683835 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2.7	1.0	2.500	0	109	68.4	146			
Surr: DNOP	0.24		0.2500		95.6	54.5	177			

Sample ID: MB-78192	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range
Client ID: PBW	Batch ID: 78192	RunNo: 100506
Prep Date: 10/17/2023	Analysis Date: 10/17/2023	SeqNo: 3683836 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.41		0.5000		83.0	54.5	177			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **GW100511**	RunNo: **100511**
Prep Date:	Analysis Date: **10/17/2023**	SeqNo: **3684724** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.2	70	130			
Surr: BFB	45		20.00		223	15	270			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **GW100511**	RunNo: **100511**
Prep Date:	Analysis Date: **10/17/2023**	SeqNo: **3684725** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	20		20.00		102	15	270			

Sample ID: **2310624-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **VZ-6**	Batch ID: **GW100511**	RunNo: **100511**
Prep Date:	Analysis Date: **10/17/2023**	SeqNo: **3686176** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	90.8	41.2	148			
Surr: BFB	42		20.00		210	15	270			

Sample ID: **2310624-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **VZ-6**	Batch ID: **GW100511**	RunNo: **100511**
Prep Date:	Analysis Date: **10/17/2023**	SeqNo: **3686177** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.45	0.050	0.5000	0	90.2	41.2	148	0.707	20	
Surr: BFB	43		20.00		213	15	270	0	0	

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSW	Batch ID: R100563	RunNo: 100563							
Prep Date:	Analysis Date: 10/18/2023	SeqNo: 3685743	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.5	70	130			
Toluene	20	1.0	20.00	0	102	70	130			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	19	1.0	20.00	0	93.1	70	130			
Trichloroethene (TCE)	20	1.0	20.00	0	101	70	130			
Surr: 1,2-Dichloroethane-d4	9.0		10.00		89.9	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.7	70	130			
Surr: Toluene-d8	9.7		10.00		97.4	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8260B: VOLATILES							
Client ID: PBW	Batch ID: R100563	RunNo: 100563							
Prep Date:	Analysis Date: 10/18/2023	SeqNo: 3685759	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R100563**	RunNo: **100563**
Prep Date:	Analysis Date: **10/18/2023**	SeqNo: **3685759** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R100563**	RunNo: **100563**
Prep Date:	Analysis Date: **10/18/2023**	SeqNo: **3685759** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		105	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	70	130			
Surr: Toluene-d8	9.9		10.00		98.5	70	130			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

WO#: 2310624

Hall Environmental Analysis Laboratory, Inc.

31-Oct-23

Client: Parkhill
Project: OWL Vadose Zone Monitoring

Sample ID: LCS-1 99.5uS eC	SampType: LCS	TestCode: SM2510B: Specific Conductance							
Client ID: LCSW	Batch ID: R100536	RunNo: 100536							
Prep Date:	Analysis Date: 10/17/2023	SeqNo: 3684874	Units: µmhos/cm						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.50	0	102	85	115			

Sample ID: LCSD-1 99.5 uS eC	SampType: LCSD	TestCode: SM2510B: Specific Conductance							
Client ID: LCSS02	Batch ID: R100536	RunNo: 100536							
Prep Date:	Analysis Date: 10/17/2023	SeqNo: 3684875	Units: µmhos/cm						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	100	10	99.50	0	102	85	115	0.0989	0	

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: MB-78184	SampType: MBLK	TestCode: EPA Method 7470A: Mercury							
Client ID: PBW	Batch ID: 78184	RunNo: 100581							
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3686901	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID: LCSLL-78184	SampType: LCSLL	TestCode: EPA Method 7470A: Mercury							
Client ID: BatchQC	Batch ID: 78184	RunNo: 100581							
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3686904	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0.0001500	0	53.0	50	150			

Sample ID: LCS-78184	SampType: LCS	TestCode: EPA Method 7470A: Mercury							
Client ID: LCSW	Batch ID: 78184	RunNo: 100581							
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3686905	Units: mg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0048	0.00020	0.005000	0	95.3	85	115			

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
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: MB-78165	SampType: MBLK	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: PBW	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685774 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Iron	ND	0.050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Silver	ND	0.0050								
Sodium	ND	1.0								

Sample ID: LCS-78165	SampType: LCS	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: LCSW	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685776 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.5	80	120			
Cadmium	0.50	0.0020	0.5000	0	99.2	80	120			
Calcium	52	1.0	50.00	0	103	80	120			
Chromium	0.50	0.0060	0.5000	0	99.2	80	120			
Iron	0.49	0.050	0.5000	0	99.0	80	120			
Magnesium	51	1.0	50.00	0	102	80	120			
Potassium	50	1.0	50.00	0	99.3	80	120			
Silver	0.10	0.0050	0.1000	0	100	80	120			
Sodium	48	1.0	50.00	0	95.6	80	120			

Sample ID: 2310624-001DMS	SampType: MS	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: VZ-5	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685884 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.73	0.0020	0.5000	0.2657	93.5	75	125			
Cadmium	0.48	0.0020	0.5000	0	95.2	75	125			
Chromium	0.48	0.0060	0.5000	0.01210	94.1	75	125			
Magnesium	77	1.0	50.00	27.01	101	75	125			
Potassium	58	1.0	50.00	6.452	103	75	125			
Silver	0.099	0.0050	0.1000	0	98.6	75	125			
Sodium	65	1.0	50.00	12.36	105	75	125			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: 2310624-001DMSD	SampType: MSD	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: VZ-5	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685885 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.73	0.0020	0.5000	0.2657	92.5	75	125	0.731	20	
Cadmium	0.48	0.0020	0.5000	0	95.3	75	125	0.101	20	
Chromium	0.48	0.0060	0.5000	0.01210	93.9	75	125	0.191	20	
Magnesium	78	1.0	50.00	27.01	101	75	125	0.267	20	
Potassium	58	1.0	50.00	6.452	104	75	125	0.805	20	
Silver	0.099	0.0050	0.1000	0	98.5	75	125	0.0345	20	
Sodium	64	1.0	50.00	12.36	104	75	125	0.992	20	

Sample ID: 2310624-001DMS	SampType: MS	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: VZ-5	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685890 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	140	5.0	50.00	95.29	97.4	75	125			

Sample ID: 2310624-001DMSD	SampType: MSD	TestCode: EPA 6010B: Total Recoverable Metals
Client ID: VZ-5	Batch ID: 78165	RunNo: 100564
Prep Date: 10/16/2023	Analysis Date: 10/18/2023	SeqNo: 3685891 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	150	5.0	50.00	95.29	101	75	125	1.10	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
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
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310624

31-Oct-23

Client: Parkhill

Project: OWL Vadose Zone Monitoring

Sample ID: MB-78174	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 78174	RunNo: 100520
Prep Date: 10/16/2023	Analysis Date: 10/17/2023	SeqNo: 3684344 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	50.0								

Sample ID: LCS-78174	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 78174	RunNo: 100520
Prep Date: 10/16/2023	Analysis Date: 10/17/2023	SeqNo: 3684345 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	50.0	1000	0	100	80	120			

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
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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

Sample Log-In Check List

Client Name: Parkhill Work Order Number: 2310624 RcptNo: 1

Received By: Steve McQuiston 10/12/2023 8:35:00 AM

Completed By: Cheyenne Cason 10/12/2023 11:01:05 AM

Reviewed By: ZJH 10/12/23 JH 10/12/23

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☑	No ☐	NA ☐
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐ N 10/12/23	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 4 (<2 or >12 unless noted)

Adjusted? ND

Checked by: CMC 10/12/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Andy Yuhas Date: 10/13/23

By Whom: Cheyenne Cason Via: ☑ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: Time discrepancy on -002

Client Instructions: Sent Email going with COC

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Parkhill

Mailing Address: 333 Rio Rancho Blvd. NE
Rio Rancho, NM 87124 Suite 4100

Phone #: 505-867-6990

email or Fax#: ayuhas@parkhill.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: OWL Vadose Zone Monitoring

Project #:

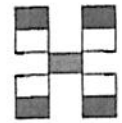
Project Manager: Andy Yuhas

Sampler: Tyler Zack

On Ice: ☒ Yes ☐ No

# of Coolers: 1 MOSTY

Cooler Temp (including CF): 3.4-0.2=3.2 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type (HCl / None / H_2SO_4 / HNO_3)	HEAL No. 2310624
10/11	1615	AQ	VZ-5 8	2 1	HCl	001
	1545		VZ-6 8	2 1	HCl	002
	1656		Field Blank 3	— —	—	003
↓	—	↓	Trip Blank 3	— —	—	004

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Attached List						
							X			X						
							X			X						
							X									
							X									

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/12/23	0833		SLM	CDO	10/12/23	0835
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time

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.

Field Parameters	
Specific Conductance	Temperature
pH	Depth to Water
Total Well Depth	
Major Cations	
Calcium	Iron
Magnesium	Potassium
Sodium	
Major Anions	
Fluoride	Chloride
Nitrate as N	Phosphorous
Sulfate	
RCRA Metals	
Arsenic	Lead
Barium	Mercury
Cadmium	Selenium
Chromium	Silver
Organic Compounds	
Benzene	Ethylbenzene
Toluene	Xylenes
Additional Parameters	
Total Dissolved Solids (TDS)	Total Petroleum Hydrocarbons (TPH)

* Plus 8260B

Andrew N. Yuhas, PG
Professional Geologist

Parkhill
505.504.7765 | ayuhas@Parkhill.com

EXHIBIT E: VZM WELL 1-10 SOIL VAPOR SCREENING RESULTS

Vadose Zone Well Vapor Monitoring Form

OWL Landfill Services, LLC

Monitoring Personnel Tyler Zack **Date** 10/11/23

Weather Information

Date, Amount of Last Precipitation: 10/4/23; 0.11"
Temp: 54 °F
Wind Speed: 5-10 mph
Wind Direction: SE
Barometric Pressure: 29.77 inches mercury (Hg)
Weather Conditions: Foggy → clear

Casing Volume (ft^3) = Radius $(ft)^2$ x π x TD (ft)

Calculated Casinng Volume	
Casing Diameter	Casing Vol/ft
2-inch	0.0218 ft^3/ft
4-inch	0.0873 ft^3/ft

Equipment Information

Monitoring Equipment Used: GEM 5000
Date and Time Last Calibrated: 10/11/23 @ 0825

Well I.D.	Well Diameter (inches)	Total Well Depth (ftbtoc)	Casing Volume (ft^3)	Purge Start Time	Elapsed Purge Time (min)	Well Vapor Measurements: Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Hydrogen Sulfide Gas (ppm)	Comments
Ambient	—	—	—	0826	0827	20.4	0.1	0	0	
VZ-9	2 inch	50.30	1.10	0829	0834	20.4	0.1	0	0	Dry
VZ-10		52.26	1.14	0900	0905	19.6	1.3	0	0	Dry
VZ-8		37.60	0.82	0933	0938	20.0	0.7	0	0	DTW: 37.49
VZ-7		44.76	0.98	0954	0959	19.5	0.9	0	1	Dry
VZ-6		62.10	1.35	1455	1500	18.0	1.9	0	1	DTW: 33.21
VZ-5		56.50	1.23	1615	1620	19.9	0.5	0	1	DTW: 42.65
VZ-4		50.50	1.10	1708	1713	19.7	1.1	0	1	DTW: 42.90
VZ-2		43.99	0.96	1716	1721	19.9	0.5	0	1	Dry
VZ-3		42.09	0.92	1725	1730	19.7	0.8	0	1	Dry
VZ-1	↓	51.23	1.12	1734	1739	20.0	0.3	0	1	DTW: 50.93
Ambient	—	—	—	1740	1741	20.5	0.0	0	1	—

EXHIBIT F: NEARBY WEATHER STATION PRECIPITATION DATA

Exhibit F

Nearby Weather Station Precipitation data, Current and Historical

Station	Dist. (mi) [1]	P.O.R.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	ANN.[2]
Jal Co-op Station (294346)[3]	26.75	1981-2010	0.48	0.54	0.55	0.78	1.56	1.62	2.09	1.92	2.14	1.30	0.66	0.54	14.18
Ochoa Co-op Station (296281)[3]	17.94	1981-2010	0.46	0.54	0.56	0.63	1.38	1.60	2.06	1.90	1.85	1.37	0.64	0.52	13.51
WIPP Co-op Station (299569)[3]	18.60	1981-2010	0.47	0.52	0.58	0.64	1.17	1.74	2.22	2.01	1.96	1.11	0.34	0.61	13.37
El Capitan PWS (KNMJAL2)[4]	17.71	2023	0.48	0.04	0.00	0.00	1.71	0.77	0.12	1.98	0.86	1.51	0.28	NA	7.75
Red Hills PWS (KNMJAL7)[4]	2.22	2023	0.39	0.05	0.02	0.02	2.21	1.87	0.52	1.54	0.97	1.37*	0.48	NA	8.07

NOTES:

P.O.R.: Period of Record

[1]: "Dist." represents the distance from eachweather station to the NDBL Facility

[2]: "ANN" refers to annual average rainfall for histori data stations, and YTD rainfall for nearby Personal Weather Stations (PWS)

[3]: Co-op station data are obtained from the Western Regional Climate Center (https://wrcc.dri.edu/Climate/west_coop_summaries.php)

[4]: Personal Weather Station data obtained from individual PWS web pages hosted by Weather Underground (https://www.wunderground.com/dashboard/pws/KNMJAL2 and https://www.wunderground.com/dashboard/pws/KNMJAL7)

*: Rainfall for October 2023 contains an outlier (12.32" rain recorded in 60 minutes on 10/3/2023) that coincides with an apparent instrument malfunction on that day. The anomalous value has been removed from this table.

DMR Copy of Record

Permit

Permit #:	NMR05J05H	Permittee:	Owl Landfill Services, LLC	Facility:	NORTHERN DELAWARE BASIN LANDFILL
Major:	No	Permittee Address:	8201 Preston Road, Suite 520 Dallas, TX 75225	Facility Location:	2029 W. NM HIGHWAY 128 JAL, NM 88252
Permitted Feature:	001 External Outfall	Discharge:	**001-L1** All Landfill, Land Application Sites and Open Dumps		

Report Dates & Status

Monitoring Period:	**From 01/01/23 to 03/31/23**	DMR Due Date:	**05/28/23**	Status:	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Zachariah	Title:	Landfill Manager	Telephone:	432-556-3072
Last Name:	Ramos				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample Permit Req.										<=	100.0 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Owl Landfill Services, LLC

User:	TYLERZACK
Name:	Tyler Zack
E-Mail:	tzack@team-psc.com
Date/Time:	2023-06-05 11:05 (Time Zone: -05:00)

Report Last Signed By

User:	ZRAMOS81
Name:	Zachariah Ramos
E-Mail:	zramos@ndblandfill.com
Date/Time:	2023-06-05 11:06 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	NMR05J05H	Permittee:	Owl Landfill Services, LLC	Facility:	NORTHERN DELAWARE BASIN LANDFILL
Major:	No	Permittee Address:	8201 Preston Road, Suite 520 Dallas, TX 75225	Facility Location:	2029 W. NM HIGHWAY 128 JAL, NM 88252
Permitted Feature:	001 External Outfall	Discharge:	**001-L1** All Landfill, Land Application Sites and Open Dumps		

Report Dates & Status

Monitoring Period:	**From 04/01/23 to 06/30/23**	DMR Due Date:	**08/28/23**	Status:	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Zachariah	Title:	Landfill Manager	Telephone:	432-556-3072
Last Name:	Ramos				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample Permit Req.						<=					100.0 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Owl Landfill Services, LLC

User:	TYLERZACK
Name:	Tyler Zack
E-Mail:	tzack@team-psc.com
Date/Time:	2023-08-09 11:00 (Time Zone: -05:00)

Report Last Signed By

User:	ZRAMOS81
Name:	Zachariah Ramos
E-Mail:	zramos@ndblandfill.com
Date/Time:	2023-08-09 11:06 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	**NMR05J05H**	Permittee:	Owl Landfill Services, LLC	Facility:	NORTHERN DELAWARE BASIN LANDFILL
Major:	No	Permittee Address:	8201 Preston Road, Suite 520 Dallas, TX 75225	Facility Location:	2029 W. NM HIGHWAY 128 JAL, NM 88252
Permitted Feature:	001 External Outfall	Discharge:	**001-L1** All Landfill, Land Application Sites and Open Dumps		

Report Dates & Status

Monitoring Period:	**From 07/01/23 to 09/30/23**	DMR Due Date:	**11/28/23**	Status:	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Zachariah	Title:	Landfill Manager	Telephone:	432-556-3072
Last Name:	Ramos				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample										<=	100.0 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Permit Req.															
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

No stormwater discharges from the facility occurred during Q3 2023.

Attachments

No attachments.

Report Last Saved By

Owl Landfill Services, LLC

User:	TYLERZACK
Name:	Tyler Zack
E-Mail:	tzack@team-psc.com
Date/Time:	2023-12-05 22:27 (Time Zone: -06:00)

Report Last Signed By

User:	ZRAMOS81
Name:	Zachariah Ramos
E-Mail:	zramos@ndblandfill.com
Date/Time:	2023-12-06 13:52 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:	NMR05J05H	Permittee:	Owl Landfill Services, LLC	Facility:	NORTHERN DELAWARE BASIN LANDFILL
Major:	No	Permittee Address:	8201 Preston Road, Suite 520 Dallas, TX 75225	Facility Location:	2029 W. NM HIGHWAY 128 JAL, NM 88252
Permitted Feature:	001 External Outfall	Discharge:	**001-L1** All Landfill, Land Application Sites and Open Dumps		

Report Dates & Status

Monitoring Period:	**From 10/01/23 to 12/31/23**	DMR Due Date:	**02/28/24**	Status:	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Zachariah	Title:	Landfill Manager	Telephone:	432-556-3072
Last Name:	Ramos				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample Permit Req.										<=	100.0 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI											C - No Discharge				

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Owl Landfill Services, LLC

User:	TYLERZACK
Name:	Tyler Zack
E-Mail:	tzack@team-psc.com
Date/Time:	2024-01-31 09:23 (Time Zone: -06:00)

Report Last Signed By

User:	ZRAMOS81
Name:	Zachariah Ramos
E-Mail:	zramos@ndblandfill.com
Date/Time:	2024-01-31 10:52 (Time Zone: -06:00)

ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 11/27/2023
Time: 10:25

Inspector(s): FGrant

Weather:
Temperature 32° ~~10:25~~ deg. F
Skies Cloudy
Wind Speed 12 mph
Wind Direction N *(direction blowing from)*

Precipitation (last 24 hours) _____ inches

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	NONE	NONE	NONE	NONE

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Pond	NONE	NONE
Cell 1	NONE	NONE
Cell 2	NONE	NONE
Cell 3	NONE	NONE
Cell 4	NONE	NONE
DPA1	NONE	NONE

NOTES: _____

ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 2/24/23
Time: 1115

Inspector(s): _____

Weather:

Temperature 50° deg. F

Precipitation (last 24 hours) 0 inches

Skies A little Cloudy

Wind Speed Breeze mph

Wind Direction SE *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
P1	NONE	NONE	NONE	NONE

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
CELL 1	NONE	NONE
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
Pond 1	NONE	NONE
Drivepad	NONE	NONE

NOTES: _____

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ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page ____ of ____

Date: 3/29/2023 **Inspector(s):**

Time: 9:00

Weather:

Temperature 36 deg. F Precipitation (last 24 hours) 0 inches

Skies Cloudy

Wind Speed 9 mph

Wind Direction South East *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond	NONE	NONE	NONE	NONE

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Pond	NONE	NONE
CELL 1	NONE	NONE
CELL 2	NONE	NONE
Cell 3	NONE	NONE
CELL 4	NONE	NONE
Drainpipe	NONE	NONE

NOTES:

ATTACHMENT II.1.D
Pond Integrity/Leak Detection Inspection Checklist
OWL Landfill Services, LLC

Page _____ of _____

Date: 4/27/2023
Time: 1:15pm

Inspector(s): FABIAN

Weather:

Temperature 60° deg. F

Precipitation (last 24 hours) _____ inches

Skies good

Wind Speed Breeze mph

Wind Direction West *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

POND CONDITION

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	✓	—	—	NA

LEAK DETECTION SYSTEM

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Pond	0	NONE
Cell 1	0	NONE
Cell 2	0	NONE
Cell 3	0	NONE
Cell 4	0	NONE
Pad	0	NONE

NOTES: _____

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ATTACHMENT II.1.D
Pond Integrity/Leak Detection Inspection Checklist
OWL Landfill Services, LLC

Page _____ of _____

Date: 5/29/2023
Time: 8:45

Inspector(s): FABIAN

Weather:

Temperature 73 deg. F

Precipitation (last 24 hours) _____ inches

Skies A little cloudy

Wind Speed 12 mph

Wind Direction SW *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

POND CONDITION

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond	NONE	NONE	NONE	NONE

LEAK DETECTION SYSTEM

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
DRYING PAD	NONE	NONE
CELL 1	NONE	NONE
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
POND 1	NONE	NONE

NOTES: _____

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ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 8/22/2023 **Inspector(s):** Fasano

Time: _____

Weather:

Temperature 85 deg. F Precipitation (last 24 hours) _____ inches

Skies Partly Cloudy

Wind Speed 7 mph

Wind Direction South West *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	None	None	None	None

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Cell 1	None	None
Cell 2	None	None
Cell 3	None	None
Cell 4	None	None
Driving Pad	None	None
Pond 1	None	None

NOTES: _____

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ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 7/27/2023

Time: 1:30°

Inspector(s): FAJ:AR

Weather:

Temperature 94 deg. F

Precipitation (last 24 hours) 0 inches

Skies CLEAR

Wind Speed 16 mph

Wind Direction NW *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	NONE	NONE	✓	NONE

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Pond	NONE	NONE
Cell 1	NONE	NONE
Cell 2	NONE	NONE
Cell 3	NONE	NONE
Cell 4	NONE	NONE
Drying Pad	NONE	NONE

NOTES:

ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 8/31/2023
Time: 1250 pm

Inspector(s): FADMN

Weather:

Temperature 93 deg. F

Precipitation (last 24 hours) _____ inches

Skies SUNNY

Wind Speed Light Breeze mph

Wind Direction Northwest *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
pond	✓	✓	✓	NONE

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Pond 1	NONE	NONE
CELL 1	NONE	NONE
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
CELL 5	NONE	NONE
Drying pad	NONE	NONE

NOTES:

ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page ____ of ____

Date: 7/25/2023
Time: 10:15 AM

Inspector(s): Fabian

Weather:

Temperature 80° deg. F

Skies Clear

Wind Speed 10 mph

Wind Direction SE *(direction blowing from)*

Precipitation (last 24 hours) 0 inches

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	✓	✓	✓	NO

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
Cell 1	0	NO
Cell 2	0	NO
Cell 3	0	NO
Cell 4	0	NO
Cell 5	0	NO
Pond	0	NO
Drying Pad	0	NO

NOTES:

ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 10/27/23
Time: 3:00 pm

Inspector(s): FAB

Weather:

Temperature 65° deg. F

Skies good

Wind Speed 6 mph mph

Wind Direction N - NE *(direction blowing from)*

Precipitation (last 24 hours) _____ inches

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond 1	NONE	NONE	NONE	Ø

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
CELL 1	NONE	NONE
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
CELL 5	NONE	NONE
Pond	NONE	NONE
Drying Pad	NONE	NONE

NOTES:

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ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: Nov 24-2023
Time: 9:00a m.

Inspector(s): FABIAN

Weather:

Temperature 50° deg. F
Skies Partly Cloudy
Wind Speed Windy Around 20 mph
Wind Direction NE *(direction blowing from)*

Precipitation (last 24 hours) _____ inches

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond	✓	✓	✓	NO SAMPLES

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
POND	NONE	NONE
CELL 1	NONE	NONE
~~CELL 2~~		
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
CELL 5	NONE	NONE
PAD	NONE	NONE

NOTES:

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ATTACHMENT II.8.B
Pond Integrity/Leak Detection Inspection Form (Typical)
OWL Landfill Services, LLC

Page _____ of _____

Date: 12/29/2023
Time: 9:00 AM

Inspector(s): FABIAN

Weather:

Temperature 50 deg. F

Precipitation (last 24 hours) _____ inches

Skies CLEAR

Wind Speed 8-10 mph

Wind Direction WEST *(direction blowing from)*

NOTES:
"X" indicates that a Deficiency has been noted. "P" indicates that a Photograph has been taken. "S" indicates that a Sample has been collected. Complete descriptions of Deficiencies, Photographs, and Samples are provided on attached pages. Items are referenced by Location.

Pond Condition

Location	Item			
	Erosion	Vegetation Established	Vectors	Sample
Pond	NONE	NONE	NONE	N/A

Leak Detection System

Riser #	Deficiency	
	Depth of H_2O	Structural Defect
CELL 1	NONE	NONE
CELL 2	NONE	NONE
CELL 3	NONE	NONE
CELL 4	NONE	NONE
Pond	NONE	NONE
Pond	NONE	NONE
CELL 5	NONE	NONE

NOTES:

ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 11/27/2023 **Print Name:** _____

Others: _____ **Signature:** _____

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds		NEEDS TO BE SKIMMED
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	•	FULL
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring		
Pond Sludge Depth		

***Comments & Repairs:** MUSTANG IS ON SITE WORKING ON TIE-IN - CELL 4 IS IN GOOD CONDITION WITH MATERIAL GOING IN MUD PLANT SEEMS TO BE RUNNING WELL CURRENTLY STILL MAINT EQUIPMENT ISSUE. H_2S NIL - BIRDS IN POND NO SWILLIN COLLECTION AREA.

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm): Ø H_2S

POND
1
2
3
4
5
6
7
8
9
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11
12

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: _____

Date: _____

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 2/24/2023 (handwritten "3" overwritten with "24")
Print Name: Zach Ramos
Others:
Signature:

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	Needs to be skimmed
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	still Full
Blowing trash		Need To get Crews To go Around And Pick trash
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	Need to have water pulled
Groundwater Monitoring		
Pond Sludge Depth		

***Comments & Repairs:** No Issue Currently on Mud plant seems to be running goo[d]. The ~~[illegible]~~ Tie-In is finally Complete Well then Focus on the drying P[ad] Need to get the level down. Got some Equipment running will continue t[o] work on Equipment.-
Runoff [illegible] Sump is Dry. No Birds in Pond

H_2S READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm): Ø

POND	
1	
2	
3	
4	
5	
6	
7	
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10	
11	
12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name:
Date:

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 3/13 **Print Name:** _____

Others: _____ **Signature:** _____

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	Got Cleaned.
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds		
Pit and Pond condition	.	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	.	Needs some repairs.
Blowing trash	✓	90% Empty
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	
Pond Sludge Depth		

***Comments & Repairs:** Plant is running into issues with liners Ceiling some repaired.. Drying pad is about 90% Empty got some of the equipment fixed still have some clean up. SW PPP collection is dry. - H_2S

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND	
1	Ø H_2S No Birds in Pond
2	
3	
4	
5	
6	
7	
8	
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10	
11	
12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: _____

Date: _____

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 4/14/2023 **Print Name:** ____________________

Others: ____________________ **Signature:** ____________________

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	water going down [illegible]
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	in great shape
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	done By PSC
Pond Sludge Depth	✓	

***Comments & Repairs:** Drying Pad is Back in good Shape + doing well mud plant is running steady with minimal issues still running into Equipment issues - hopefully we will get stuff ward running next week No Birdsing Pond No watering - SWPAD -

H₂S READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm): No H2S

POND

1
2
3
4
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*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name: ____________________

Date: ____________________

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 5/12/2023 **Print Name:** ZACH RAMOS
Others: **Signature:**

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	
Blowing trash	✓	HAVE A Cleaning Crew on site pickup trash
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring		PSL is scheduled to do it
Pond Sludge Depth	✓	

***Comments & Repairs:** drying Pad is doing Great, Mud plant is DOWN to ONE 3 PHASE so oil side process is slow. - second unit will need to Be sent to ff Construction is going good. Have A crew on site Cleaning - location drying Pad is good. - NO WATER in SWPPP AREA No Birds in Pond

H_2S
READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND	
1	Ø H2S
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name:
Date:

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 4/2/2023 **Print Name:** _____

Others: _____ **Signature:** _____

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	•	NEED to Pull MORE WATER.
Groundwater Monitoring		PSC is scheduled to Complete
Pond Sludge Depth	—	

***Comments & Repairs:** PLANT IS STRUGGLING DUE TO CENTRIFUGES GOING DOWN.. CURRENTLY HAVE A 2 PHASE & 3 PHASE DOWN AT THE MOMENT. - DRYING PAD IS STRUGGLING DUE TO WEATHER AND SOME EQUIPMENT ISSUES. DIAPHRAM PUMP IS DOING WELL WITH KEEPING WATER OFF PAD. - CONSTRUCTION ON CELL 6 IS GOING GOOD - NO WATER IN SWPPP AREA AND BIRDS -

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND	
1	NO BIRDS IN POND
2	NO WATER IN SWPPP COLLECTION AREA.
3	
4	
5	
6	
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12	

*****In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: _____

Date: _____

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 7/7/2023 **Print Name:** _____

Others: _____ **Signature:** _____

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	
Blowing trash	✓	Hand Crew to pickup last two weeks
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring		done By PSC.
Pond Sludge Depth		

***Comments & Repairs:** Currently have one 3 phase down this week recieved parts and will work on repairs. Mud plant has been cleaned up and pressure washed. Drying pad is in good shape Haulers some issues with H_2S the heavy equipment. - New land fill Construction is doing well

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Pond clear of animals Birds - No H_2S in SWPPP collection Area

Evaporation Pond (readings in ppm): Ø

POND	
1	
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12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: _____

Date: _____

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 8/31/2023 **Print Name:** _____

Others: _____ **Signature:** _____

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	
Solid waste disposal area inspection	✓	
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	
Pond Sludge Depth		

***Comments & Repairs:** Mud Plant has been running good we are finally going down the blue kept pipeline to give us a relief on water. The dry pad is in good shape and most equipment is up here running. And the rest is out to the shop.

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND	
1	NO H_2S No Birds in pond. No water in swppp collecting
2	
3	
4	
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12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: _____

Date: _____

ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 9/22/2023 **Print Name:** ______

Others: ______ **Signature:** ______

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	Skimming oil-off Pond
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	Good
Solid waste disposal area inspection	✓	Continue to Get Cleaned Everyday
Blowing trash		Along the guys do a little cleaning
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	
Pond Sludge Depth	✓	

***Comments & Repairs:** The drying pad is looking decent the mud plant is looking good. Still have some Equipment Issues with the Heavy Equipment As well as the As 2 Phase [illegible]. The landfill is in good shape. No Birds in the Pond/no H2O in Sump Collecting Area

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND	No H2S
1	
2	
3	
4	
5	
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12	

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval

Name: ______

Date: ______

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 10/20/23 **Print Name:** ______________

Others: ______________ **Signature:** ______________

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign		
Berms and outside pond levees		
Tank Labels		
Sumps		
Pond levels three-foot free board		
Free oil on Pits-Ponds		got a crew cleaning pond
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	got it pressure washed
Solid waste disposal area inspection	✓	in good shape half cleaned
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	
Pond Sludge Depth		

***Comments & Repairs:** Construction on the back of the plant contractor working on drying pad this week. Was able to get the press out this week. Still have some equipment down, mostly dump trucks. Also doing some work on the back of the landfill.

H_2S READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm):

POND No H2S No H2O in SWPPP Collection Area No Birds

1
2
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***In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:**

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name: ______________

Date: ______________

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ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 11/3/2023 **Print Name:**

Others: **Signature:**

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection	✓	getting maintenance and kept good and
Solid waste disposal area inspection	✓	in good shape
Blowing trash	✓	
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	
Pond Sludge Depth		

***Comments & Repairs:** Mud plant is good besides we did lose a 2 phase and 3 phase centrifuge. We are working on cleaning up the back of the landfill and drying pad is in great shape. got most of the heavy equipment running. Pad for shop H_2S is getting worked out and new plant upgrades are coming along

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm): Ø No birds in pond No H2S in SWPPP collection area.

POND

1
2
3
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*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name:

Date:

C:\Users\[illegible]\Desktop\Documents\Copy of OWL-II.1-Att II.1.C-InspectForm_Feb.2016

ATTACHMENT II.1.C
Inspection Form
OWL Landfill Services, LLC

Date: 12/2/2023 **Print Name:** Zach R[illegible]

Others: ______ **Signature:** ______

Inspection will be in accordance with NMOCD operational conditions.

Item	Satisfactory	Action Required
Entrance Sign	✓	
Berms and outside pond levees	✓	
Tank Labels	✓	
Sumps	✓	
Pond levels three-foot free board	✓	
Free oil on Pits-Ponds	✓	
Pit and Pond condition	✓	
Pit and Pond marker numbers	✓	
Treatment Plant inspection		Have some Equipment down
Solid waste disposal area inspection	✓	good shape
Blowing trash	✓	had guys cleaning
Fences and Gates	✓	
Leak detection sumps - Landfill - Liquid present?	✓	
Leak detection sumps - Evaporation Ponds - Liquid present?	✓	
Leak detection sumps - Drying Pad - Liquid present?	✓	
Landfill Leachate Sump	✓	
Groundwater Monitoring	✓	Done By FSL
Pond Sludge Depth	✓	

***Comments & Repairs:** Mud plant is Running good 3phases and 2phases are good - still need Ved fixed on P5000 - Drying Pad is in good shape Equipment is doing good - do still have some pieces down -

H_2S

READINGS ARE TO BE TAKEN 4 FT DOWNWIND FROM EVAPORATION PONDS

Evaporation Pond (readings in ppm): Ø H2S NO Birds in pond

POND

1
2
3
4
5
6
7
8
9
10
11
12

NO WATER in SWPPP collection Area -

*In the event that a reading of 10 ppm is registered at the Facility, personnel will evacuate the area and operator will monitor H_2S levels at the downwind of the Pond. If H_2S levels reach 20 ppm, the Facility will be closed and notification will be given to the following:

OWL Office	505-231-1071	NMOCD Hobbs	575-393-6161
New Mexico State Police	575-392-5580	NMOCD Santa Fe	505-476-3440
Lea County Sheriff	575-397-3611		

Receipt & Approval
Name: ______

Date: ______

C:\Users\cramos\Desktop\Documents\Copy of OWL-II.1-Att II.1.C-InspectForm_Feb.2016

MEETING SIGN-IN SHEET

Subject:	SWPPP / H2S. Was used for Both	**Meeting Date:**	January 2023
Facilitator:	Tim Shreve, Zach Ramos, Dorian Rosalez	**Place/Room:**	Landfill

Employee #	Name	Job Title	Signature	Date
10136	Martin, Wade D.	Operator	Wade Martin	1-27-23
10113	DeLoera, Abram D.	Operator	Abram DeLoera	1-27-23
10068	Hernandez, Gerardo M.	Heavy Equipment Operator	Gerardo M Hernandez	1-27-23
10067	Ramirez, Rudy A.	Heavy Equipment Operator		1-27-23
1259	Torres, Alexander	Heavy Equipment Operator	alex	1-27-23
10155	Prosise, Isaiah D.	Operator		1-27-23
10156	Zuniga, Jaime	Operator	Jaime Zuniga	1-27-23
10096	Alvarado, Isaac	Heavy Equipment Operator		1-27-23
10022	Ponce, Marcos R.	Heavy Equipment Operator	Marcos	1-27-23
10089	Llanas Diaz, Angela	Scalehouse Ticket Operator	Angela Llanas	1-20-23
1185	Fabela, Fabian Q.	Landfill Supervisor		1-18-2023
10048	Rosalez Jr, Ramon	Mud-Plant Supervisor	No longer with us	
1195	Fabela, Gina A.	Scalehouse Ticket Operator	Gina Fabela	2.3.23
10154	Romero, Elco A.	Heavy Equipment Operator		1-27-23
10026	Moberly, Nicios C.	Mud-Plant Supervisor		1-19-23
1229	Baker, Gayla M.	Operations Support Specialist	DALLAS EMPLOYEE	—
10150	Flores, Alexis	Heavy Equipment Operator	Alexis Flores	1-27-23
10059	Martinez, Humberto I.	Operator		1-27-23

Employee #	Name	Job Title	Signature	Date
1235	Rosalez, Dorian L.	Mud Plant Manager		01/18/2023
10036	Gallegos, Alonzo	Operator		
10147	Dominguez, Angel I.	Operator	No longer with us Terminated	—
1204	Montanez, Amy D.	Scalehouse Ticket Operator		1-30-23
10152	Fabela, Eddy Q.	Scalehouse Ticket Operator		2/3/23
1276	Munoz, Andres	Heavy Equipment Operator		01-27
10093	Minjarez, Julian	Operator		1/28/23
1273	Ronquillo, Jesus J.	Heavy Equipment Operator		1/27/23
10107	Rosalez, Ramon	Maintenance Mechanic		1/10/23
1241	Frias, Jonathan	Mud-Plant Supervisor		1-18-23
1191	Zamora, Erika	Scalehouse Supervisor		01/18/2023
1173	Chacon, Adan	Heavy Equipment Operator		1/27/23
10149	Flores Montalvo, Crispin	Heavy Equipment Operator		1/27.23
10132	Rojas, Orlando	Operator		1/27/23
10031	Aguilar, Edwin A.	Heavy Equipment Operator		1-27-23
10142	Rojas, Saul	Operator	No longer with us Terminated	—
10133	Gaston, Jakob	Operator		1/27/23
1193	Denniston, Mike M.	Heavy Equipment Operator		1-27-23
10130	Molina, Hector	Operator		
1238	Ornelas, Adan	Landfill Supervisor		1/27/23
10141	Granados, Maria V.	Scalehouse Ticket Operator		1-30-23
1164	Ramos, Zach E.	Landfill Manager		01/18/2023

SH895

Employee #	Name	Job Title	Signature	Date
[illegible]	[illegible]	Scalehouse Ticket Operator	[illegible]	1/18/23
[illegible]	[illegible]	Scalehouse Ticket Operator II	[illegible]	1/30/23
[illegible]	[illegible]	Operator	[illegible]	01/18/23
[illegible]	[illegible]	Scalehouse Ticket Operator	Judy Renquillo	1-30-23
[illegible]	[illegible]	Scalehouse Ticket Operator	Adan Ornelas Jr	1/30/23
[illegible]	[illegible]	Operator	[illegible]	—
[illegible]	Ronquillo, Eleuterio	Heavy Equipment Operator	[illegible]	01-27-23
[illegible]	Cabellos, Geraldine	Heavy Equipment Operator	[illegible]	2/20/23
[illegible]	Cabellos, Henry U	Operator	[illegible]	01-27-23
[illegible]	Hopson, Jeffrey D.	Landfill Supervisor	[illegible]	1/18/23
[illegible]	Tellez, Dominique	Sales Representative	[illegible]	01/18/2023
1212	Urias, Ginney	Operator	[illegible]	1-27-23
[illegible]	Torres, Adrian	Operator	[illegible]	1-27-23
10161	Gustavo Echavarria	Operator	GES	1-27-23
10158	Elvys Robles	Operator	[illegible]	1-27-23
	Jose Sotelo	[illegible]	[illegible]	1-27-23
	Alfredo Rosales	Operator	[illegible]	1-27-23

MEETING SIGN-IN

Facility: OWL Landfill	Date: 08/23/2023
Facilitator(s):	Subject: H2S Prevention Plan

Employee #	Employee #	Job Title	Date	Signature
10031	Aguilar, Edwin A.	Landfill Supervisor	8-23-23	Edwin Aguilar
10096	Alvarado, Isaac	Heavy Equipment Operator		
10058	Andrade, Josealexis	Operator		
10166	Arcidez, Castulo	Operator	8-23-23	
10181	Burciaga, Eduardo	Operator	8-23-23	Eduardo B
10007	ByGoytia, Alonso D.	Operator		
10016	Cabellos, Geraldine	Heavy Equipment Operator		
1249	Cabellos, Henry U.	Operator	8-23-23	
1269	Castaneda, Andres	Operator	8-23-23	Andres.
10183	Castillo, Jose	Wash Rack Operator		
1173	Chacon, Adan	Heavy Equipment Operator		
10162	Cotton, Arien K.	Operator	8/23/23	A C
10179	Cotton, Semaj	Operator	8-23-23	
10113	DeLoera, Abram D.	Operator	9-4-23	
1193	Denniston, Mike M.	Heavy Equipment Operator	8-23-23	
10185	Echavarria Morales, Luis G.	Heavy Equipment Operator		
10161	Echavarria, Gustavo	Operator	8-23-23	GE
1185	Fabela, Fabian Q.	Landfill Supervisor	9-4-2023	
1195	Fabela, Gina A.	Scalehouse Ticket Operator		
10149	Flores Montalvo, Crispin	Heavy Equipment Operator	8-23-23	CRISPIN F

10150	Flores, Alexis	Heavy Equipment Operator	8/23/23	Alexis Flores
10178	Flores, Daniel A.	Operator	8,23,23	DF
1241	Frias, Jonathan	Mud-Plant Supervisor		
10084	Heady, Leslie L.	Scalehouse Ticket Operator	8-28-23	
10182	Hernandez, Armando	Operator	8.27.23	
10068	Hernandez, Gerardo M.	Heavy Equipment Operator		
1208	Hopson, Jeffrey D.	Landfill Supervisor	9/04/23	
10180	Huchin, Jason z.	Wash Rack Operator	8.23.23	Jason H
10168	Jurado, Isai	Heavy Equipment Operator	9.04.23	
10188	Lopez, Ernesto A.	Operator	8-23-23	
10177	Lopez, Isaias	Wash Rack Operator	8-25-23	Isaias Lopez
10171	Lopez, Jose M.	Wash Rack Operator	09-04-23	
10186	Lujan, Fernando V.	Wash Rack Operator		
10136	Martin, Wade D.	Operator		
10059	Martinez, Humberto I.	Operator	8-23-23	
10189	Mendez, Raquel	Scalehouse Ticket Operator		
10164	Mendoza, Crespin	Operator	8/23/23	
10093	Minjarez, Julian	Operator	8-23-23	
10026	Moberly, Niclos C.	Mud-Plant Supervisor	8-23-23	
10130	Molina, Hector	Operator		
1204	Montanez, Amy D.	Scalehouse Ticket Operator	8-24-23	
1276	Munoz, Andres	Heavy Equipment Operator		
10167	Olivas, Nesiah M.	Scalehouse Ticket Operator	8/28/23	
10157	Ornelas Jr., Adan	Scalehouse Ticket Operator	8-24-23	

1238	Ornelas, Adan	Landfill Supervisor	9-4-23	
10155	Prosise, Isaiah D.	Operator		
10067	Ramirez, Rudy A.	Heavy Equipment Operator		
1164	Ramos, Zach E.	President	8/23/22	
10158	Robles, Elvys A.	Operator	8/23/23	
10169	Rodriguez, Norma L.	Scalehouse Ticket Operator		
10132	Rojas, Orlando	Operator	8/23/23	Orlando Rojas
10154	Romero, Elco A.	Heavy Equipment Operator	8-23-23	
1251	Ronquillo, Eleuterio	Heavy Equipment Operator	8/23/23	
1273	Ronquillo, Jesus J.	Heavy Equipment Operator		
1228	Ronquillo, Judy B.	Scalehouse Ticket Operator		
10160	Rosalez, Alfredo D.	Operator		
1234	Rosalez, Atilano	Heavy Equipment Operator		
1235	Rosalez, Dorian L.	Mud Plant Manager	8-23-23	
10107	Rosalez, Ramon	Maintenance Mechanic	8-23-23	
10190	Sanchez, Jorge	Heavy Equipment Operator		
10159	Sotelo, Joe L.	Operator		
1174	Tellez, Dominique	Sales Representative	8-28-23	
10086	Torres, Adrian	Operator		
1259	Torres, Alexander	Heavy Equipment Operator		
1212	Urias, Ginney	Operator	8-23-23	Ginney Urias
10172	Velasquez, Fredy	Wash Rack Operator	9-4-23	
10187	Williams Jr, Kendrick A.	Operator	8-23-23	
1191	Zamora, Erika	Scalehouse Supervisor	8-24-23	

10175	Zubia, Ivan	Scalehouse Ticket Operator	8-24-23	Ivan Zubia
10156	Zuniga, Jaime	Operator		

H2S Prevention Dec.2023

Client Name	Full Name	Employee Number	Signature	Job Title
OWL Landfill Services. LLC	Jacquez, Fernando	10203		Heavy Equipment Operator
OWL Landfill Services. LLC	Parra , Axl M.	10215		Wash Rack Operator
OWL Landfill Services. LLC	Burciaga, Eduardo	10181		Operator
OWL Landfill Services. LLC	Lopez, Annaly	10204		Scalehouse Ticket Operator
OWL Landfill Services. LLC	DeLoera, Abram D.	10113		Heavy Equipment Operator
OWL Landfill Services. LLC	Carballo, Javier	10193		Wash Rack Operator
OWL Landfill Services. LLC	Hernandez, Gerardo M.	10068		Heavy Equipment Operator
OWL Landfill Services. LLC	Ramirez, Rudy A.	10067		Heavy Equipment Operator
OWL Landfill Services. LLC	Lopez, Jose M.	10171		Wash Rack Operator
OWL Landfill Services. LLC	Vega, Yordanis R.	10217		Wash Rack Operator
OWL Landfill Services. LLC	Zubia, Ivan	10175		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Torres, Alexander	1259		Heavy Equipment Operator
OWL Landfill Services. LLC	Mendez, Raquel	10189		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Rosalez, Alfredo D.	10160		Operator
OWL Landfill Services. LLC	Prosise, Isaiah D.	10155		Operator
OWL Landfill Services. LLC	Zuniga, Jaime	10156		Operator
OWL Landfill Services. LLC	Alvarado, Isaac	10096		Heavy Equipment Operator
OWL Landfill Services. LLC	Rodriguez, Norma L.	10169		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Cotton, Arien K.	10162		Operator
OWL Landfill Services. LLC	Lopez, Ernesto A.	10188		Operator
OWL Landfill Services. LLC	Rios, Gabriel	10196		Heavy Equipment Operator
OWL Landfill Services. LLC	Sotelo, Joe L.	10159		Operator
OWL Landfill Services. LLC	Fabela, Fabian Q.	1185		Landfill Supervisor
OWL Landfill Services. LLC	Rangel, Edgar	1230		Heavy Equipment Operator
OWL Landfill Services. LLC	Flores, Daniel A.	10178		Operator
OWL Landfill Services. LLC	Romero, Elco A.	10154		Heavy Equipment Operator
OWL Landfill Services. LLC	Sanchez, Jorge	10190		Heavy Equipment Operator
OWL Landfill Services. LLC	Moberly, Niclos C.	10026		Mud-Plant Supervisor
OWL Landfill Services. LLC	Flores, Alexis	10150		Heavy Equipment Operator
OWL Landfill Services. LLC	Martinez, Humberto I.	10059		Operator
OWL Landfill Services. LLC	Rosalez, Dorian L.	1235		Mud Plant Manager
OWL Landfill Services. LLC	Woods, Julius r.	10198		Operator
OWL Landfill Services. LLC	Williams Jr, Kendrick A.	10187		Operator
OWL Landfill Services. LLC	Mojarro, Jayden	10205		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Montanez, Amy D.	1204		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Munoz, Andres	1276		Heavy Equipment Operator
OWL Landfill Services. LLC	Minjarez, Julian	10093		Operator
OWL Landfill Services. LLC	Ronquillo, Jesus J.	1273		Heavy Equipment Operator
OWL Landfill Services. LLC	Robles, Elvys A.	10158		Operator
OWL Landfill Services. LLC	Cotton, Semaj	10179		Operator
OWL Landfill Services. LLC	Rosalez, Ramon	10107		Maintenance Mechanic
OWL Landfill Services. LLC	Frias, Jonathan	1241		Mud-Plant Supervisor
OWL Landfill Services. LLC	Duarte, Heriberto	10210		Wash Rack Operator

OWL Landfill Services. LLC	Zamora, Erika	1191		Scalehouse Lead
OWL Landfill Services. LLC	Olivarez, Erica	10212		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Chacon, Adan	1173		Heavy Equipment Operator
OWL Landfill Services. LLC	Peralta Tavara, Alvaro	10202		Operator
OWL Landfill Services. LLC	Echavarria Morales, Luis G.	10185		Heavy Equipment Operator
OWL Landfill Services. LLC	Hernandez, Armando	10182		Operator
OWL Landfill Services. LLC	Valladolid, Jose	10201		Heavy Equipment Operator
OWL Landfill Services. LLC	Flores Montalvo, Crispin	10149	Crispin Flores	Heavy Equipment Operator
OWL Landfill Services. LLC	Rojas, Orlando	10132		Operator
OWL Landfill Services. LLC	Aguilar, Edwin A.	10031		Landfill Supervisor
OWL Landfill Services. LLC	Echavarria, Gustavo	10161		Heavy Equipment Operator
OWL Landfill Services. LLC	Perez Marquez, Jeonadad	10194		Was Rack Operator
OWL Landfill Services. LLC	Denniston, Mike M.	1193		Heavy Equipment Operator
OWL Landfill Services. LLC	Peralta Tavara, Pedro A.	10211		Operator
OWL Landfill Services. LLC	Gomez , Lazaro R.	10206		Wash Rack Operator
OWL Landfill Services. LLC	Molina, Hector	10130		Operator
OWL Landfill Services. LLC	Rodriguez, Jorge	10197		Operator
OWL Landfill Services. LLC	ByGoytia, Alonso D.	10007		Operator
OWL Landfill Services. LLC	Ornelas, Adan	1238		Landfill Supervisor
OWL Landfill Services. LLC	Rosalez, Atilano	1234		Heavy Equipment Operator
OWL Landfill Services. LLC	Tasis , Richard L.	10214		Heavy Equipment Operator
OWL Landfill Services. LLC	Ramos, Zach E.	1164		President
OWL Landfill Services. LLC	Arcidez, Castulo	10166		Operator
OWL Landfill Services. LLC	Mendoza, Crespin	10164		Operator
OWL Landfill Services. LLC	Heady, Leslie L.	10084		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Lujan, Jazmine A.	1254		Scalehouse Lead
OWL Landfill Services. LLC	Castaneda, Andres	1269		Operator
OWL Landfill Services. LLC	Ronquillo, Judy B.	1228		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Batista, Dariel	10213		Wash Rack Operator
OWL Landfill Services. LLC	Ornelas Jr., Adan	10157		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Castillo, Jose	10183		Wash Rack Operator
OWL Landfill Services. LLC	Hidalgo diaz, Reynaldo	10216		Heavy Equipment Operator
OWL Landfill Services. LLC	Ronquillo, Eleuterio	1251		Heavy Equipment Operator
OWL Landfill Services. LLC	Cabellos, Henry U.	1249		Operator
OWL Landfill Services. LLC	Olivas, Nesiah M.	10167		Scalehouse Ticket Operator
OWL Landfill Services. LLC	Hopson, Jeffrey D.	1208		Landfill Supervisor
OWL Landfill Services. LLC	Tellez, Dominique	1174		Sales Representative
OWL Landfill Services. LLC	Jurado, Isai	10168		Heavy Equipment Operator
OWL Landfill Services. LLC	Quezada, Edwin	10146		Wash Rack Operator
OWL Landfill Services. LLC	Urias, Ginney	1212		Heavy Equipment Operator
OWL Landfill Services. LLC	Torres, Adrian	10086		Operator
	Ornelas Hector			Heavy Equipment Operator

2023

ATTACHMENT II.8.A
Leachate Monitoring Form
OWL Landfill Services, LLC

Leachate Level Data				Pumping Data			Notes
Date	Sump I.D.	Time	Monitored By	Date	Company	Volume Pumped (gal)	
Jan	Cell 2		Fabian	1/25/23	NDBL	120 bbls	
Jan	Cell 3		Fabian	1/25/23	NDBL	80 bbls	
Feb	Cell 2		Fabian	2/20/23	NDBL	400 bbls	
March	CELL 2		Edwin	3/10/2023	NDBL	600	
March	CELL 3		Edwin	3/10/2023	NDBL	bbls, out	
March	CELL 4		Edwin	3/10/2023	NDBL	Pulled	
April	CELL 2		FAB.-	4/13/2023	NDBL	120 bbl	Cell 2
MAY	CELL 2		FABIAN	5/22	NDBL	240 bbls	
MAY	CELL 3		FABIAN	5/22	NDBL	100 bbls	
JUNE	CELL 2		FABIAN	6/21/23	NDBL	280 bbls	
JUNE	CELL 3		FABIAN	6/21/23	NDBL	40 bbls	
July	CELL 2		FABIAN	7/8	NDBL	200bbls	
July	CELL 3		FABIAN	7/8	NDBL	100 bbls	
July	CELL 4		FABIAN	7/8	NDBL	30bbls	
July	CELL 2		FABIAN	7/17	NDBL	160bbls	
AUG	Cell 2		Fabian	8/21/23	NDBL	120 bbls	
AUG	Cell 3		Fabian	8/21/23	NDBL	220 bbls	
AUG	Cell 4		Fabian	8/21/23	NDBL	90 bbls	
Sept.	Cell 2		Fabian	9/10/23	NDBL	130 bbls	
Sept.	Cell 3		Fabian	9/10/23	NDBL	100 bbls	
Sept.	Cell 4		Fabian	9/10/23	NDBL	40 bbls	

2023

ATTACHMENT II.8.A
Leachate Monitoring Form
OWL Landfill Services, LLC

Leachate Level Data				Pumping Data			Notes
Date	Sump I.D.	Time	Monitored By	Date	Company	Volume Pumped (gal)	
Oct	cell 2		Fabian	10/23/23	NDBL	200 bbls	
Oct	cell 3		Fabian	10/23/23	NDBL	60 bbls	
Oct	Cell 4		Fabian	10/23/23	NDBL	130 bbls	
Nov	Cell 2		Fabian	11/9/23	NDBL	100 bbls	
Nov	cell 3		Fabian	11/9/23	NDBL	140 bbls	
Nov	cell 4		Fabian	11/9/23	NDBL	95 bbls	
Dec	Cell 2		Fabian	12/11/23	NDBL	90 bbls	
Dec	Cell 3		Fabian	12/11/23	NDBL	220 bbls	
Dec	cell 4		Fabian	12/11/23	NDBL	115 bbls	

Service Ticket

22954

Tech Name: A Lour

Truck Number: 117

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used	C - CO2 Cartridge
1-25-2023			Amerex	5#ABC	F88778291	2020		✓			CC - Cartridge Cover
			Amerex	5#ABC	F92817373	2020		✓			G - Gage
			Amerex	5#ABC	F93818856	2020		✓			GT - Gasket
			Amerex	5#ABC	F88769463	2020		✓			HC - Hose Clip
			Ansul	5#ABC	B04199598	2015		✓			H - Hose
			Amerex	10#ABC	F83769461	2020		✓			L - Label
			Amerex	10#ABC	F33777584	2020		✓			MT - Metal Tag
			Amerex	5#ABC	F93870410	2020		✓			N - Nozzel
			Amerex	20#ABC	F97284587	2020			✓		OL - Operating Label
			Amerex	20#ABC	F97284589	2020		✓			OR - O-Ring
			Amerex	20#ABC	H13727004	2022		✓			P - Pull Pin
			Amerex	20#ABC	G95663105	2021		✓			S - Seal
			Amerex	20#ABC	F97284575	2020			✓		TB - Tag Bag
			Amerex	20#ABC	F97284582	2020		✓			V - Valve
			Amerex	20#ABC	H13727005	2022		✓			VS - Valve Stem
			Amerex	20#ABC	F97284570	2020		✓			

Customer: Owl

Month: Jan, 2023

Jobsite: Landfill

Location:

Service Ticket

23247

Tech Name: A. Lopez

Truck Number: 117

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
2-24-2023			AMEREX	10#ABC	F98778291	2020		✓		
			AMEREX	5#ABC	F93818856	2020		✓		
			AMEREX	5#ABC	F93817373	2020		✓		
			AMEREX	10#ABC	F98777524	2020		✓		
			AMEREX	10#ABC	F98769461	2020		✓		
			ANSUL	5#ABC	B04199598	2015		✓		
			AMEREX	5#ABC	F93820410	2020		✓		
			AMEREX	10#ABC	F98769463	2020		✓		
		Docks Loading L FD	AMEREX	20#ABC	F97284589	2020		✓		
		1	AMEREX	20#ABC	H13727004	2022		✓		
		M.O P.T LT	AMEREX	20#ABC	G95663105	2021		✓		
		1 RT	AMEREX	20#ABC	F97284575	2020		✓		
		1 M.O	AMEREX	20#ABC	F97284592	2020		✓		
		Docks Loading Right	AMEREX	20#ABC	H13727005	2022			✓	
		1	AMEREX	20#ABC	F97284570	2020		✓		
			AMEREX	20#ABC	F97284587	2020		✓	✓	
			AMEREX	20#ABC	F97284G-2	2020			✓	

C - CO_2 Cartridge
CC - Cartridge Cover
G - Gage
GT - Gasket
HC - Hose Clip
H - Hose
L - Label
MT - Metal Tag
N - Nozzel
OL - Operating Label
OR - O-Ring
P - Pull Pin
S - Seal
TB - Tag Bag
V - Valve
VS - Valve Stem

Customer: O.L

Month: Feb 2023

Website: Landfill

Location:

Service Ticket

23717

Tech Name: A. Cisco

Truck Number: 117

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
3-24-23			Amerex	10#ABC	F99770291	2020		✓		
			Amerex	15#ABC	F93018856	2-22		✓		
			Amerex	10#ABC	F99769463	2020		✓		
			Amerex	10#ABC	F99769461	2020		✓	✓	
			Amerex	10#ABC	F99777584	2020		✓	✓	
			Amerex	5#ABC	F93820410	2020			✓	
			Ansul	5#ABC	B04199598	2015			✓	
			Amerex	20#ABC	F97284589	2020			✓	
			Amerex	20#ABC	H13727004	2022		✓		
			Amerex	20#ABC	G95663105	2021				CONTAMINATED RUST/DIRT
			Amerex	20#ABC	H96678490	2023			✓	New
			Amerex	20#ABC	H96678501	2023			✓	New
			Amerex	20#ABC	F97284575	2020				CONTAMINATED RUST/DIRT
			Amerex	20#ABC	F97284582	2020			✓	
			Amerex	20#ABC	H13727005	2022		✓	✓	
			Amerex	20#ABC	F97284570	2020		✓	✓	
			Amerex	20#ABC	F97284587	2020		✓		
			Amerex	20#ABC	F97284602	2020		✓		

C - CO2 Cartridge
CC - Cartridge Cover
G - Gage
GT - Gasket
HC - Hose Clip
H - Hose
L - Label
MT - Metal Tag
N - Nozzel
OL - Operating Label
OR - O-Ring
P - Pull Pin
S - Seal
TB - Tag Bag
V - Valve
VS - Valve Stem

Customer: OWL

Month: March 2023

Jobsite: LANDFILL

Location:

Service Ticket

Tech Name: A. Luna

Truck Number: 107

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
5/1/2023			Amerex	10#ABC	F08779291	2020		✓		
			Amerex	5#ABC	F93819856	2020		✓		
			Amerex	10#ABC	F38769463	2020		✓		
			Ansul	5#ABC	B04199591	2015		✓		
			Amerex	5#ABC	F9:820410	2020		✓		
			Amerex	10#ABC	F38769461	2020		✓		
			Amerex	10#ABC	F93777594	2020		✓		
			Amerex	20#ABC	F97284593	2020		✓		
			Amerex	20#ABC	H13727004	2022		✓		
			Amerex	20#ABC	F97284589	2020		✓		
			Amerex	20#ABC	HA6678501	2023		✓		
			Amerex	20#ABC	HA6678490	2023		✓		
			Amerex	20#ABC	F97284582	2020		✓		
			Amerex	20#ABC	H13727005	2022		✓		
			Amerex	20#ABC	F97284570	2020		✓		

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H - Hose
L - Label
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N - Nozzel
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OR - O-Ring
P - Pull Pin
S - Seal
TB - Tag Bag
V - Valve
VS - Valve Stem

Customer: Pilot Walker

Month: May 2023

Jobsite: Landfill

Location:

Service Ticket

23323

Tech Name: [illegible]

Truck Number: 117

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
6.14.2023			Amer	10HABC	FB9778291	2020		✓		
			Amer	15HABC	F9381 8856	2020		✓		
			Amer	10HABC	FB9769463	2020		✓		
			Amer	10HABC	FB9777534	2020		✓		
			Amer	10HABC	FB9769461	2020		✓		
			Amer	15HABC	F9382 0410	2020		✓		
			Ansul	5#ABC	B04195 98	2015		✓		
			Amer	20#ABC	F9728 4589	2020		✓		
			Amer	20#ABC	H13727004	2022		✓		
			Amer	20#ABC	H9667 8501	2023		✓		
			Amer	20#ABC	F9728 4582	2020		✓		
			Amer	20#ABC	H9667 8490	2023		✓		
			Amer	20#ABC	H1372 7005	2022		✓		
			Amer	20#ABC	F9728 4570	2020		✓		
			Amer	20#ABC	F9728 4587	2020		✓		
			Amer	20#ABC	F9728 46-2	2020		✓		

C - CO2 Cartridge
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H - Hose
L - Label
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N - Nozzel
OL - Operating Label
OR - O-Ring
P - Pull Pin
S - Seal
TB - Tag Bag
V - Valve
VS - Valve Stem

Customer: OWL

Month: June 2023

Jobsite: Landfill

Location: Jal, NM

Service Ticket

Tech Name: A. Lour

Truck Number: 117

23977

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used	C - CO2 Cartridge
7.24.2023			Amerex	10#ABC	F88778291	2020			✓		CC - Cartridge Cover
			Amerex	10#ABC	F93769463	2020			✓		G - Gage
			Amerex	10#ABC	F88769461	2020		✓			GT - Gasket
			Amerex	5#ABC	F93818856	2020			✓		HC - Hose Clip
			Amerex	5#ABC	F93820410	2020		✓			H - Hose
			Amerex	5#ABC	B04199598	2015		✓			L - Label
			Amerex	20#ABC	H13727005	2022		✓			MT - Metal Tag
			Amerex	20#ABC	F97284589	2020		✓			N - Nozzel
			Amerex	20#ABC	H13727004	2022		✓			OL - Operating Label
			Amerex	20#ABC	H96678490	2023		✓			OR - O-Ring
			Amerex	20#ABC	H96678501	2023		✓			P - Pull Pin
			Amerex	20#ABC	F97284582	2020		✓			S - Seal
			Amerex	20#ABC	F97284570	2020		✓			TB - Tag Bag
			Amerex	20#ABC	F97284587	2020	✓		✓		V - Valve
			Amerex	20#ABC	F972846-2	2020		✓			VS - Valve Stem

Customer: Owl

Month: July 2023

Jobsite: Landfill

Location: Jal, NM

Service Ticket

25199

Tech Name: A. Lopez

Truck Number: 122

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
8.24.2023			AMCK	10HASC	F93778291	2020		✓		
			AMCK	5HASC	F93820410	2020		✓		
			AMCK	10HASC	F9387 69463	2020		✓		
			AMSU	5HASC	P04199598	2015		✓		
			AMCK	5HASC	F93818856	2020		✓		
			AMCK	10HASC	F93769461	2020		✓		
			AMCK	20HASC	F97284534	2020		✓		
			AMCK	20HASC	H1372 7004	2022		✓		
			AMCK	20HASC	H9667 8501	2023		✓		
			AMCK	20HASC	H9667 8490	2023		✓		
			AMCK	20HASC	F97284582	2020		✓		
			AMCK	20HASC	F97284587	2020		✓		
			AMCK	20HASC	F97284570	2020		✓		
			BROSH	5HASC	H1617 5797	2022			✓	
			AMCK	20HASC	H1372 7005	2022		✓		
			AMCK	20HASC	F97284 6-2	2020		✓		

Parts Used	C - CO2 Cartridge
	CC - Cartridge Cover
	G - Gage
	GT - Gasket
	HC - Hose Clip
	H - Hose
	L - Label
	MT - Metal Tag
	N - Nozzel
	OL - Operating Label
	OR - O-Ring
	P - Pull Pin
	S - Seal
	TB - Tag Bag
	V - Valve
	VS - Valve Stem

Customer: Owl

Month: Aug 2023

Jobsite: Landfill

Location: NM

Service Ticket

23213

Tech Name: _____ Truck Number: 113

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used	C - CO2 Cartridge
10/4/2023			AMEREX	10HABC	F88769463	2020			✓		CC - Cartridge Cover
			AMEREX	10HABC	F88769461	2020			✓		G - Gage
			AMEREX	10HABC	F8877 79291	2020			✓		GT - Gasket
			AMEREX	5HABC	F938 20470	2020			✓		HC - Hose Clip
			AMEREX	5HABC	F9387 8856	2020			✓		H - Hose
			AMEREX	5HABC	B04199598	2015			✓		L - Label
			BADGER	5HABC	H26069746	2023		✓			MT - Metal Tag
			BADGER	5HABC	H26069269	2023		✓			N - Nozzel
			AMEREX	20HABC	F97284589	2020		✓			OL - Operating Label
			AMEREX	20HABC	H13727004	2022		✓			OR - O-Ring
			AMEREX	20HABC	H9667 8490	2023		✓			P - Pull Pin
			AMEREX	20HABC	H9667 8501	2023		✓			S - Seal
			AMEREX	20HABC	I07644484	2023		✓			TB - Tag Bag
			AMEREX	20HABC	F97284587	2020		✓			V - Valve
			AMEREX	20HABC	F97284570	2020		✓			VS - Valve Stem
			AMEREX	20HABC	H13727005	2022		✓			
			BADGER	5HABC	H16175797	2022		✓			
			AMEREX	5HABC	F97284 6-2	2020		✓			

Customer: OWL Month: Oct 2023

Jobsite: Land fill Location: NM

Service Ticket

25014

Tech Name: A LOYA

Truck Number: 111

Date	Rig#	License Plate#	Brand	Model	Serial#	HTD	Refill	Monthly	Annual	Parts Used
11 13 2023			AMEREX	10#ABC	F39769463	2020		✓		
			AMEREX	10#ABC	F39769461	2020		✓		
			AMEREX	10#ABC	F39778291	2020		✓		
			AMEREX	5#ABC	F93820410	2020		✓		
			AMEREX	5#ABC	F93818856	2020		✓		
			AMSUL	5#ABC	B04199598	2015		✓		
			BADGER	5#ABC	H26069246	2023		✓		
			BADGER	5#ABC	H26069269	2023		✓		
			AMEREX	2#ABC	H3727005	2022				CONDEMN DENT
			AMEREX	20#ABC	F97284570	2020				CONDEMN RUST
			BADGER	5#ABC	H16175797	2022		✓		
			AMEREX	20#ABC	H99545128	2023			✓	NEW
			AMEREX	20#ABC	H99545131	2023			✓	NEW
			AMEREX	20#ABC	F97284587	2020		✓		
			AMEREX	20#ABC	I07644841	2023		✓		
			AMEREX	20#ABC	H99678501	2023		✓		
			AMEREX	20#ABC	H96678490	2023		✓		
			AMEREX	20#ABC	H3727004	2022		✓		
			AMEREX	20#ABC	F97284589	2020		✓		
			AMEREX	20#ABC	F97284642	2020		✓		

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OR - O-Ring	
P - Pull Pin	
S - Seal	
TB - Tag Bag	
V - Valve	
VS - Valve Stem	

Customer: OWL

Month: Nov 2023

Jobsite: LANDFILL

Location:

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 379760

CONDITIONS

Operator: OWL LANDFILL SERVICES, LLC 3889 Maple Avenue Dallas, TX 75219	OGRID: 371820
	Action Number: 379760
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	None	1/9/2025