Initial

Application

Part I

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

MAY 24 2019 PM03:10

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
05/24/2019		SWD	PMAM19156 54082

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Geological & Engineering Bureau –
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: LilyStream Water Solutions, LLC **OGRID Number:** 373500
Well Name: White SWD #2 **API:** 30-015-xxxxx
Pool: Proposed: SWD; Devonian-Silurian **Pool Code:** 97869

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☒ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Joel Lowry
Print or Type Name

Joel Lowry
Signature

5/10/2019
Date

432-466-4450
Phone Number

joel@lowryenvironmental.com
e-mail Address

May 3, 2019

MAY 24 2019 PM03:10

NOTIFICATION TO INTERESTED PARTIES

Via U.S. Certified Mail - Return Receipt Requested

RE: Application for Authroization to Inject
White SWD #2
Township 21S, Range 30E, N.M.P.M
Section 20, 1,980' FSL & 250' FEL
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of a C-108 Application submitted by LilyStream Water Solutions, LLC, Lovington, New Mexico, to the New Mexico Oil Conservation Division to drill and complete for produced water disposal the White SWD #2.

The well is located in Section 20, Township 21S, Range 30E, 1,980' FSL and 250' FEL, Eddy County, New Mexico.

As required by NMOCD, we are notifying you because you have been indentified as an operator or surface owner and therefor an affected party by this action. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

The well will be a commercial SWD well taking produced water from oil and gas operations in the surrounding area. Please contact Joel Lowry with Lowry Environmental and Associates, LLC, at 432.466.4450 , with any questions or concerns regarding this well or application.

Respectfully,

Joel Lowry

Joel W. Lowry
LOWRY
environmental

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. *PURPOSE:* _____ *Secondary Recovery* _____ *Pressure Maintenance* **XXX** *Disposal* _____ *Storage*
Application qualifies for administrative approval? **XXX** *Yes* _____ *No*

II. *OPERATOR:* **LilyStream Water Solutions, LLC**
ADDRESS: **1308 West Ave. N, Lovington, NM, 88260**
CONTACT PARTY: **Joel Lowry** *PHONE:* **432-466-4450**

III. *WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injections. Additional sheets may be attached if necessary.*

Applicable Well Data is provided as Attachment #1.

IV. *Is this an expansion of an existing project?* _____ *Yes* **XXX** *No*
If yes, give the Division order number authorizing the project: **N/A**

V. *Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.*

A map identifying all wells and leases within a two mile radius is provided as Figure 1 in Attachment #2.
A map identifying all wells and leases within the one-mile expanded Area of Review is provided as Figure 2 in Attachment #2.

VI. *Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.*

A tabulation of data on all wells of public record within the expanded area of review which penetrate the proposed injection zone is provided as Attachment #3.

VII. *Attach data on the proposed operation, including:*

1. *Proposed average and maximum daily rate and volume of fluids to be injected;*
2. *Whether the system is open or closed;*
3. *Proposed average and maximum injection pressure;*
4. *Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,*
5. *If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).*

Proposed operation details are provided as Attachment #4.
Analysis from source zone produced water is provided as Attachment #4a.
Analysis from injection zone produced water is provided as Attachment #4b.

***VIII.** *Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.*

Geological data on the proposed injection zone is provided as Attachment #5.

IX. *Describe the proposed stimulation program, if any.*

Acid may be utilized to clean and open the formation in accordance with industry standards, as necessary.

***X.** *Attached appropriate logging and test data on the well. (If well logs have been filed with the Division, the need not be resubmitted).*

As this is a new drill, logging and test data is not available. Well Log and test data will be filed with the NMOCD upon completion of the well. NMOCD District I Office will be notified prior to conducting MIT.

***XI.** *Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.*

A map depicting fresh water wells within a one mile radius and associated chemical analysis, if applicable, is provided as Attachment #6.

XII *Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal one and any underground sources of drinking water.*

An Affirmative Statement is provided as Attachment #7.

XIII *Applicants must complete the "Proof of Notice" section on the reverse side of this form.*

"Proof of Notice" documentation is provided as Attachment #8.

XIV. *Certification: I hereby certify that the information submitted with the application is true and correct to the best of my knowledge and belief.*

NAME: Joel Lowry *TITLE:* Agent of Lilystream Water Solutions, LLC

SIGNATURE: Joel Lowry

EMAIL ADDRESS: joel@lowryenvironmental.com

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submitta

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

ATTACHMENT #1

Well Data

Attachment #1 **III. Well Data**

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1)

General Well Information	
Operator	LilyStream Water Solutions, LLC
Lease Name & Well No.	White SWD #2
Location	1,980' FSL & 250' FEL, UL I, Sec. 20, T21S, R30E

(2)

Casing Information								
String	Size (in.)	Grade	Weight	Setting Depth (ft bgs)	Cement (sx)	Hole Size (in.)	Estimated Top of Cement	Method of Determination
Surface	20	J-55	94.0 lb/ft.	396	600	26	Surface	Circulation
Intermediate 1	13.375	P-110	80.7 lb/ft	3,676	2,200	17.5	Surface	Circulation
Production	9.625	P-110	53.5 lb/ft.	10,711	1,900	12.25	Surface	Circulation
Liner	7.625	P-110	39.0 lb/ft.	10411 to 14521	460	8.5	10411' (TOL)	CBL

(3)

Description of Tubing			
Size	Weight	Lining Material	Setting Depth (ft.)
5.5"	23.0 lb/ft	Internal Plastic Coated	10,351
5"	18.0 lb/ft	Internal Plastic Coated	14,421

(4)

Packer Information	
Type	Setting Depth (ft.)
LOK-SET ™ or Equivalent	14,421

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Injection Information		
(1)	Name of Injection Formation:	Devonian-Silurian
(2)	Injection Interval:	14521 to 15566 ft.
	Perforated or Open-Hole:	Open Hole
(3)	Purpose of Well:	New Drill for Salt Water Disposal
(4)	Other Perforated Intervals:	None

(5)

Estimated Depth of Various Formations Including Oil and Gas Zones (ft. bgs)	
T. Salt	406
B. Salt	3,016
T. Delaware	3,476
T. Bone Spring	7,251
T. Wolfcamp	10,311
T. Strawn	11,556
T. Atoka	11,951
T. Morrow	12,086
T. Barnett	13,356
T. Missippian	13,946
T. Woodford Shale	14,496
T. Devonian	14,521
T. Montoya	15,566

There are no known oil and gas zones beneath the proposed injection zone.

INJECTION WELL DATA SHEET

Tubing Size: **5.5" tapered to 5"** Lining Matrial: **Internal Plastic Coated (ICP)**

Type of Packer: **LOK-SET ™ or Equivalent**

Packer Setting Depth: **14,421** Ft.

Other Type of Tubing/Casing Seal (if applicable): **Not Applicable**

Additional Data

1. Is this a new well drilled for injection? **XXX** Yes _____ No

   If no, for what purpose was the well oringally drilled? **N/A**

2. Name of the Injection Formation: **Devonian-Silurian**

3. Name of Field or Pool (if applicable): **SWD; Devonian-Silurian**

4. Has the well ever been perforated in any other zones (s)" List all such perforated intervals and give plugging detail, i.e. sacks of cent or plugs(s) used. **N/A**

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

name	*depth*
T. Salt	**406**
B. Salt	**3,016**
T. Delaware	**3,476**
T. Bone Spring	**7,251**
T. Wolfcamp	**10,311**
T. Strawn	**11,556**
T. Atoka	**11,951**
T. Morrow	**12,086**
T. Barnett	**13,356**
T. Missippian	**13,946**
T. Woodford	**14,496**
T. Devonian	**14,521**
T. Montoya	**15,566**

There are no known oil and gas zones underlying the proposed injection interval

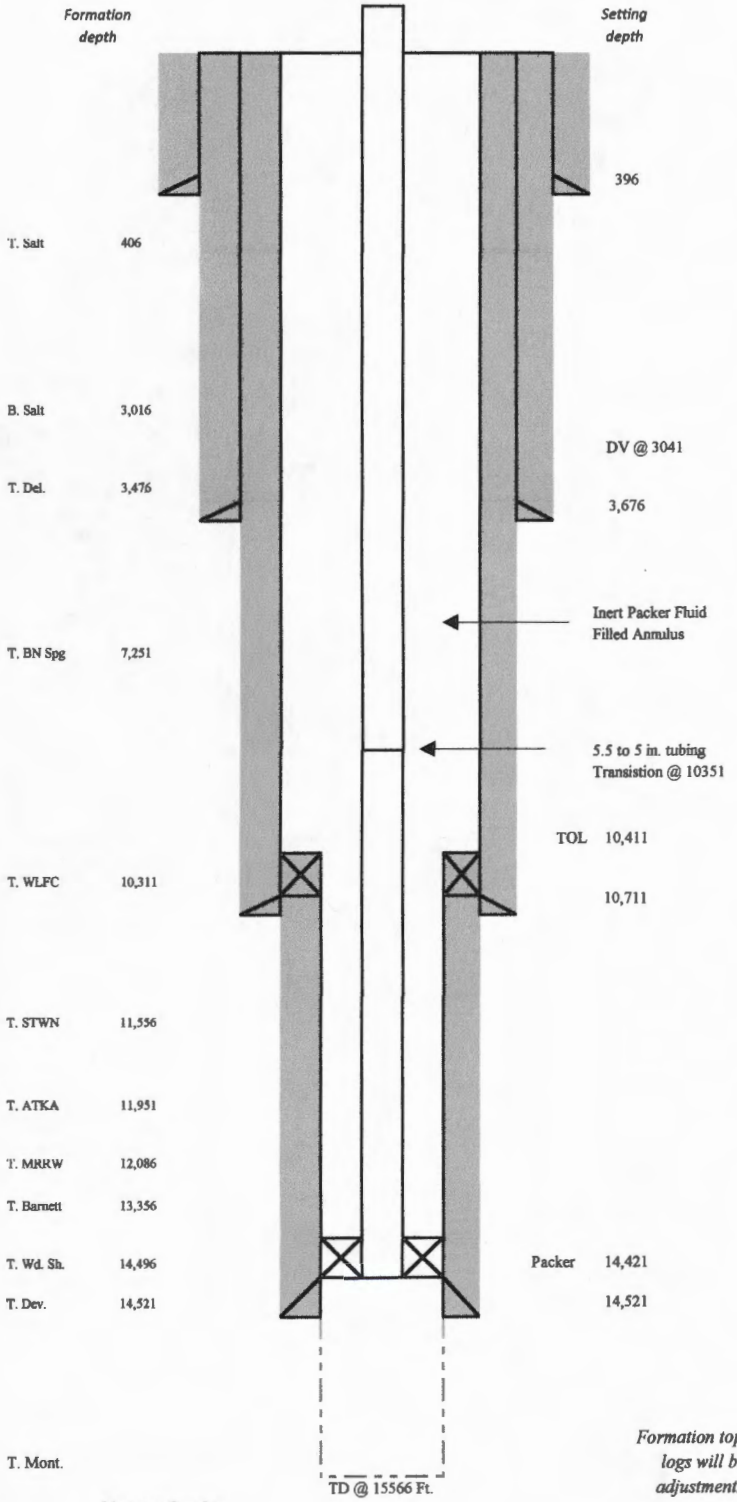
INJECTION WELL DATA SHEET

OPERATOR: **LilyStream Water Solutions, LLC**

WELL NAME & NUMBER: **White SWD #2**

WELL LOCATION				
1,980' FSL & 250' FEL	**I**	**20**	**21S**	**30E**
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



Not to Scale

WELL CONSTRUCTION DATA

Surface Casing

Hole Size **26** in. Casing Size: **20** in.

Setting Depth: **Surface** ft. to **396** ft.

Cemented with: **600** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

1st Intermediate Casing

Hole Size **17.5** in. Casing Size: **13.375** in.

Setting Depth: **Surface** ft. to **3,676** ft.

Cemented with: **2200** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

Production Casing

Hole Size **12.25** in. Casing Size: **9.625** in.

Setting Depth: **Surface** ft. to **10,711** ft.

Cemented with: **1900** sx. or _____ ft^3

Top of Cement: **Surface** Method Determined **Circulation**

Liner

Hole Size **8.5** in. Casing Size: **7.625** in.

Setting Depth: **10,411** ft. to **14,521** ft.

Cemented with: **460** sx. or _____ ft^3

Top of Cement: **10411** TOL Method Determined **CBL**

Open Hole Injection Interval

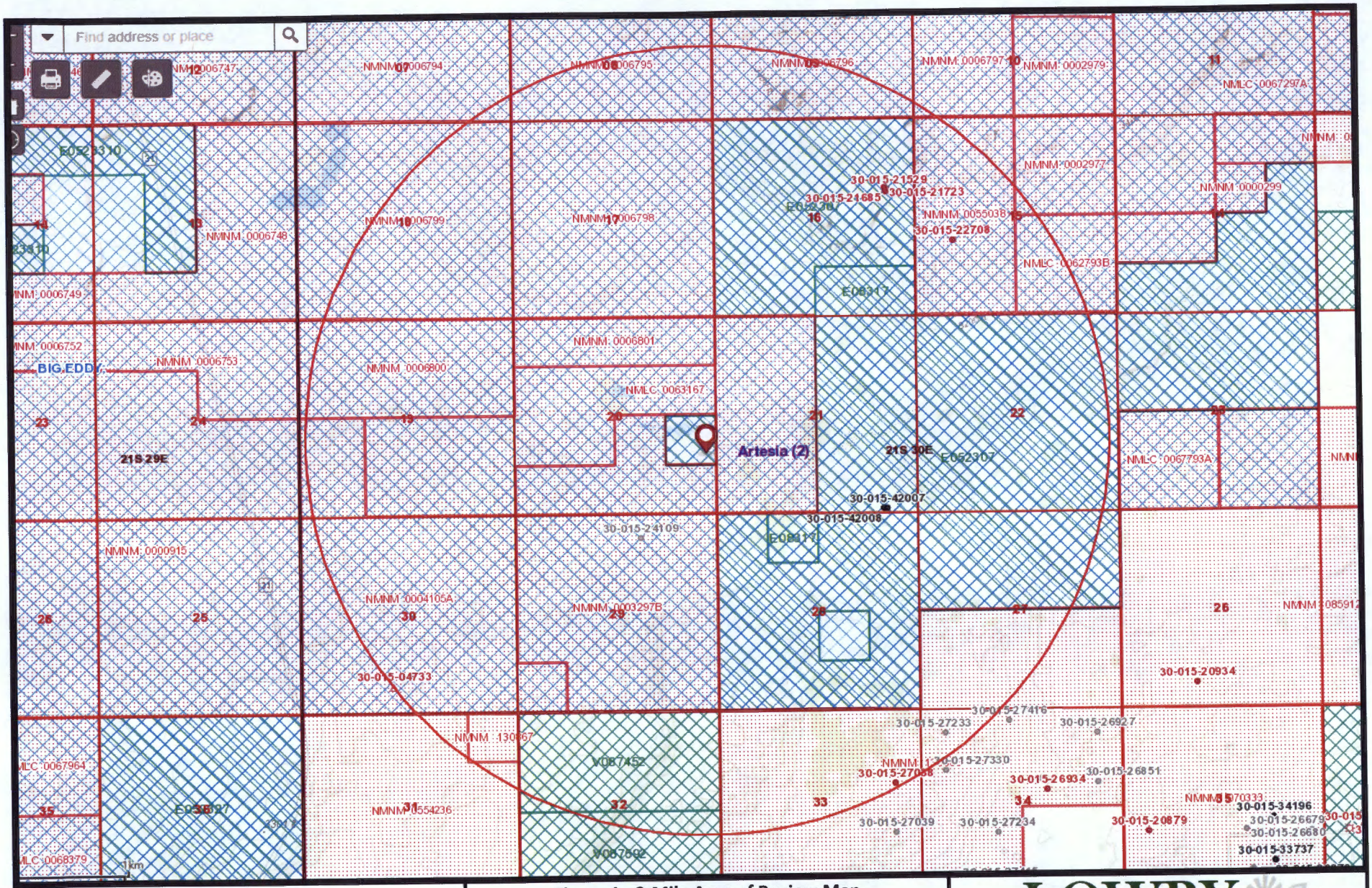
14,521 ft. to **15,566** ft

Formation tops have been extrapulated from control wells in the vicinity. During drilling activites, mud and other logs will be utilized to confirm depths and thicknesses of geologic formations. Should logging data indicate adjustments are required to the casing and cement program, applicable Sundry Notices will be filed with the NMOCD.

ATTACHMENT #2

Figure 1 - 2-Mile Area of Review Map

Figure 2 - 1-Mile Area of Review Map



LEGEND:

- Proposed SWD Location
- 2-Mile Radius

Figure 1 - 2-Mile Area of Review Map

LilyStream Water Solutions, LLC

White SWD #2

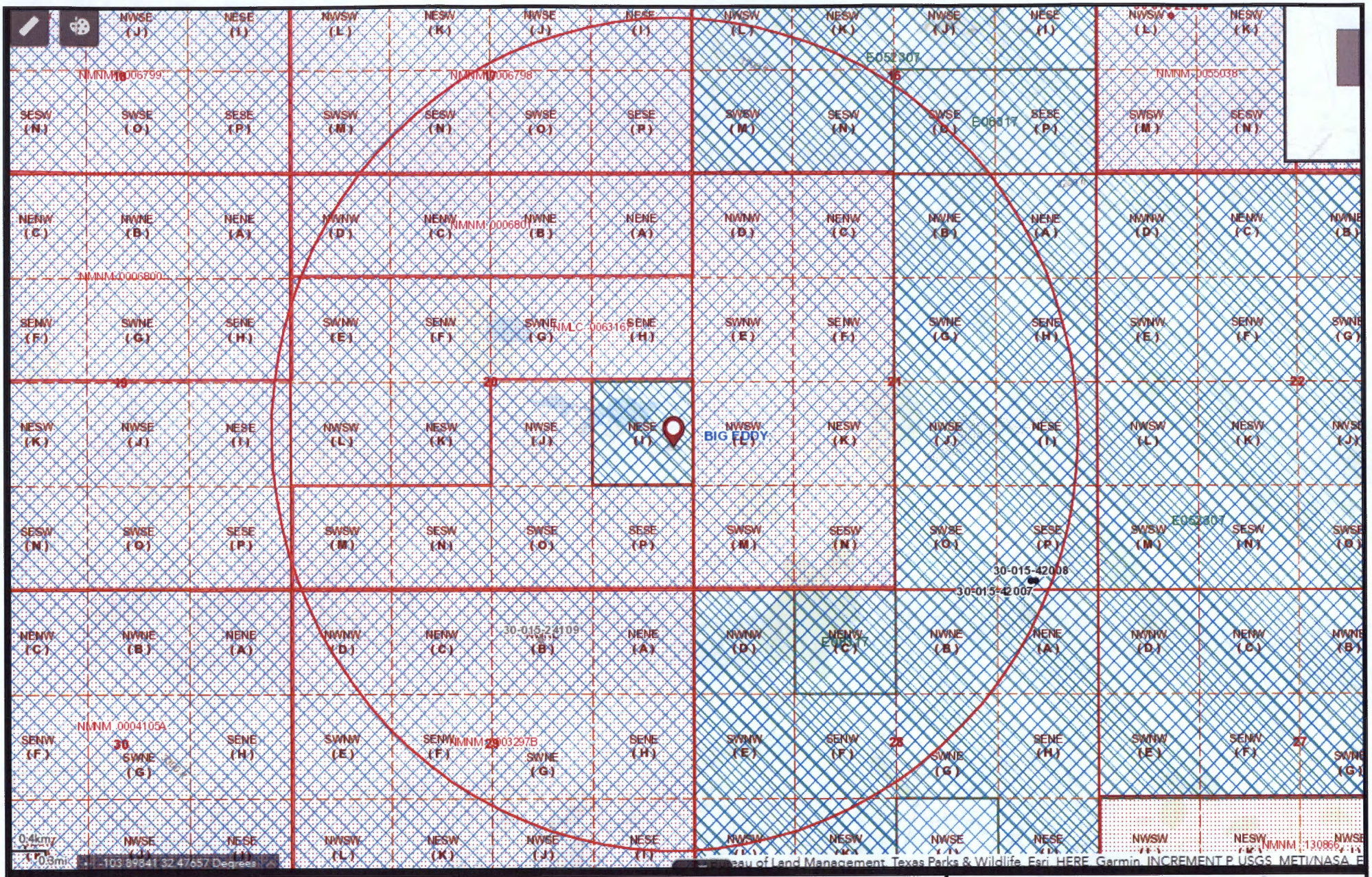
API No. Pending

Legals: UL I, Sec. 20,T21S, R30E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019



LEGEND:

- Proposed SWD Location
- 1-Mile Radius

Figure 2 - 1-Mile Area of Review Map

LilyStream Water Solutions, LLC

White SWD #2

API No. Pending

Legals: UL I, Sec. 20,T21S, R30E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

ATTACHMENT #3

Tabulation of Data Wells within AOR

TABULATION OF DATA

Summary of Wells within AOR and Surrounding Vicinity

API No.	Well Name	Type	Status	Section	Township	Range	Unit Letter	OCRID Name	Pool ID	X	Y
30-015-20879	PRE-ONGARD WELL #001	Oil	Plugged (Site Released	35	21S	30E	C	PRE-ONGARD WELL OPERATOR	NA	607389.919	3589107.658
30-015-20934	PRE-ONGARD WELL #001	Oil	Plugged (Site Released	26	21S	30E	N	PRE-ONGARD WELL OPERATOR	NA	607780.082	3590318.075
30-015-21289	PRE-ONGARD WELL #001	Gas	Plugged (Site Released	36	21S	30E	L	PRE-ONGARD WELL OPERATOR	[73680] CABIN LAKE, MORROW (GAS)	608999.569	3589119.502
30-015-21501	LIVINGSTON RIDGE UNIT #001Y	Gas	Plugged (Site Released	36	21S	30E	L	COG OPERATING LLC	[73640] CABIN LAKE, ATOKA (GAS)	609100.702	3589120.601
30-015-21529	BIG EDDY UNIT #044	Gas	Plugged (Site Released	16	21S	30E	H	BOPCO, L.P.	[81040] MAROON CLIFFS, MORROW, SOUTH (GAS); [97557] MAROON CLIFFS, ATOKA(G)	605324.385	3594323.076
30-015-21685	PRE-ONGARD WELL #045	Oil	Plugged (Site Released	16	21S	30E	H	PRE-ONGARD WELL OPERATOR	NA	605284.637	3594353.103
30-015-21723	PRE-ONGARD WELL #045	Oil	Plugged (Site Released	16	21S	30E	H	PRE-ONGARD WELL OPERATOR	NA	605297.145	3594322.789
30-015-22708	PRE-ONGARD WELL #067	Oil	Plugged (Site Released	15	21S	30E	L	PRE-ONGARD WELL OPERATOR	NA	605831.21	3593923.652
30-015-24109	PRE-ONGARD WELL #098	Oil	Cancelled APD	29	21S	30E	B	PRE-ONGARD WELL OPERATOR	NA	603339.297	3591491.681
30-015-24138	BIG EDDY UNIT #097	Gas	Active	35	21S	29E	F	BOPCO, L.P.	[83240] QUAHADA RIDGE, MORROW (GAS)	598000.222	3589432.867
30-015-26679	PEAK VIEW #003	Oil	Cancelled APD	35	21S	30E	I	PHILLIPS PETROLEUM CO NW	NA	608697.718	3589116.837
30-015-26680	PEAK VIEW #004	Oil	Cancelled APD	35	21S	30E	J	PHILLIPS PETROLEUM CO NW	NA	608176.999	3589128.173
30-015-26851	JULIA AJL FEDERAL #001	Oil	Cancelled APD	34	21S	30E	H	EOG Y RESOURCES, INC.	NA	606982.802	3589507.296
30-015-26927	JULIA AJL FEDERAL #002	Oil	Cancelled APD	34	21S	30E	A	EOG Y RESOURCES, INC.	NA	606978.629	3589909.538
30-015-26934	JULIA AJL FEDERAL #004	Oil	Plugged (Site Released	34	21S	30E	G	EOG Y RESOURCES, INC.	[8435] CABIN LAKE, DELAWARE	606582.191	3589443.753
30-015-27038	KALEIDOSCOPE AKO FEDERAL #001	Oil	Plugged (Site Released	33	21S	30E	H	EOG Y RESOURCES, INC.	[8435] CABIN LAKE, DELAWARE	605373.659	3589494.86
30-015-27039	KALEIDOSCOPE AKO FEDERAL #002	Oil	Cancelled APD	33	21S	30E	I	EOG Y RESOURCES, INC.	NA	605377.155	3589092.403
30-015-27233	PRE-ONGARD WELL #002	Oil	Cancelled APD	34	21S	30E	D	PRE-ONGARD WELL OPERATOR	NA	605773.174	3589899.751
30-015-27234	PRE-ONGARD WELL #005	Oil	Cancelled APD	34	21S	30E	K	PRE-ONGARD WELL OPERATOR	NA	606185.539	3589098.252
30-015-27330	PRE-ONGARD WELL #003	Oil	Cancelled APD	34	21S	30E	E	PRE-ONGARD WELL OPERATOR	NA	605776.236	3589598.069
30-015-27414	PRE-ONGARD WELL #004	Oil	Cancelled APD	34	21S	30E	F	PRE-ONGARD WELL OPERATOR	NA	606532.385	3589534.096
30-015-27416	PRE-ONGARD WELL #001	Oil	Cancelled APD	34	21S	30E	C	PRE-ONGARD WELL OPERATOR	NA	606277.344	3590004.395
30-015-33737	PEAKVIEW #002	Oil	Active	35	21S	30E	P	CONOCOPHILLIPS COMPANY	[8435] CABIN LAKE, DELAWARE	608405.408	3588869.871
30-015-34196	PEAKVIEW #003	Oil	Active	35	21S	30E	J	CONOCOPHILLIPS COMPANY	[8435] CABIN LAKE, DELAWARE	608392.247	3589225.009
30-015-42007	BIG EDDY UNIT DI9 #035H	Oil	Active	21	21S	30E	P	BOPCO, L.P.	[98053] WC-015 G-08 S212915D, BONE SPRING	605305.686	3591734.462
30-015-42008	BIG EDDY UNIT DI9 #034H	Oil	Active	21	21S	30E	P	BOPCO, L.P.	[98053] WC-015 G-08 S212915D, BONE SPRING	605284.171	3591734.236

No Wells within AOR penetrate the proposed injection zone.

ATTACHMENT #4

Proposed Operations

A. Source Zone Produced Water Analysis

B. Injection Zone Produced Water Analysis

VII. Proposed Operations

Attach data on the proposed operation, including:

	Proposed Operation		
(1)	Average Rate:	20,000 bbls	
	Maximum Rate:	30,000 bbls	
(2)	Open or Closed:	Open	
(3)	Average Injection Pressure:	1,500 - 2,000	psi
	Maximum Injection Pressure:	2,904	psi

(4) ***Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and***

The anticipated sources of produced water proposed to be injected into the Devonian and Silurian formations are from the Delaware, Wolfcamp and Bone Springs Formations, which are known to be compatible with formation water from the Devonian Formation. Laboratory analysis of water samples collected from the respective formations is provided as **Attachment #4a.**

(5) ***If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water***

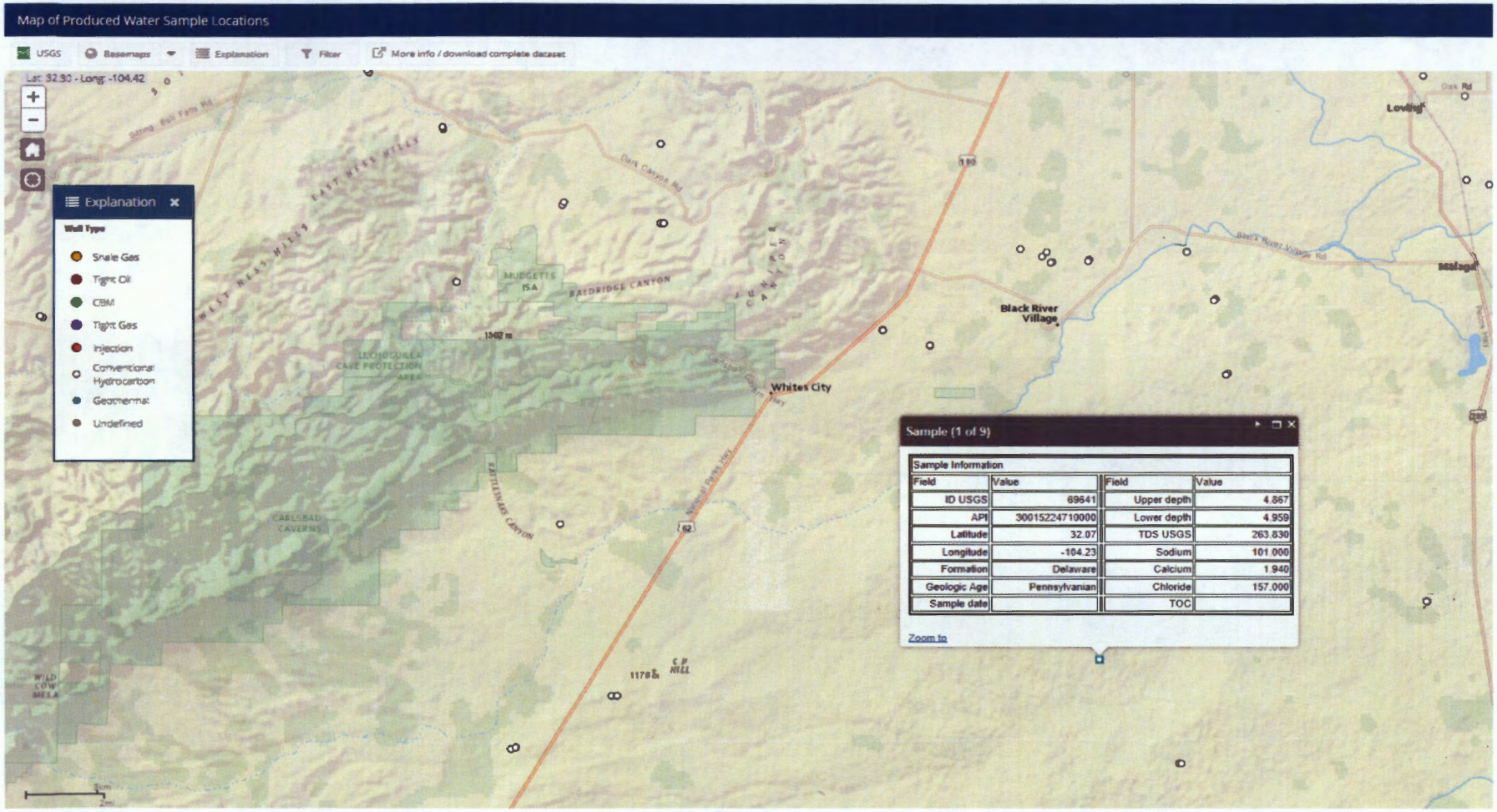
Laboratory analysis of water samples collected from the Devonian and Fusselman Formations are provided as **Attachment #4b.**

Safety, Spill Prevention and Release Response

Above-ground storage tanks (ASTs) associated with the SWD operation will be placed into a steel-walled, lined containment system. The well, injection equipment and ASTs will be equipment with metering and pressure sensing devices in an effort to monitor and ensure the integrity of the equipment and prevent accidental releases to the environment.

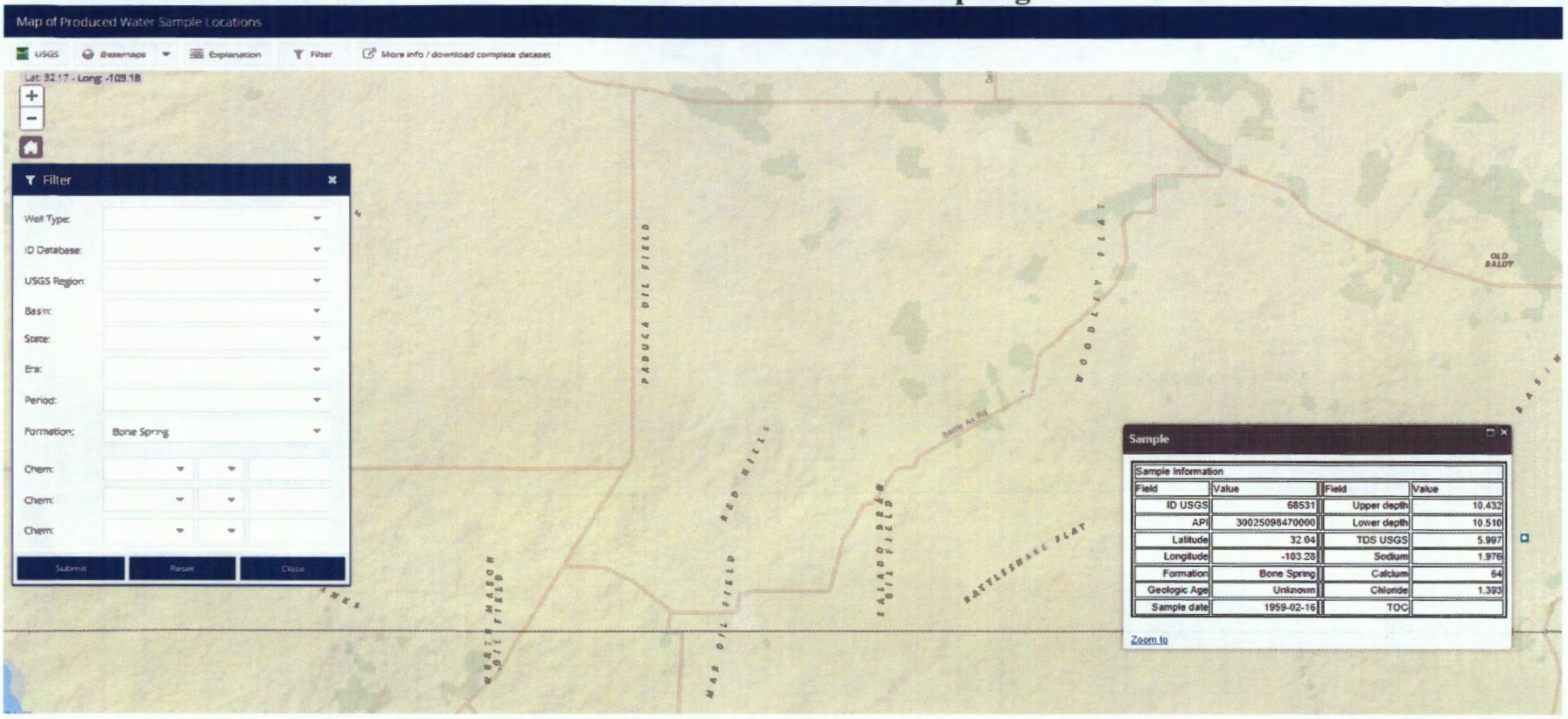
In the event of an accidental releases to the environment, a Release Notification (NMOCD Form C-141) will be prepared, characterizing the release and proposing remediation activates designed to mitigate environmental impacts, as necessary. In the event of an accidental discharge of greater than 25 bbls, the NMOCD will be notified immediately.

Attachment 4A - Source Zone Produced Water — Delaware

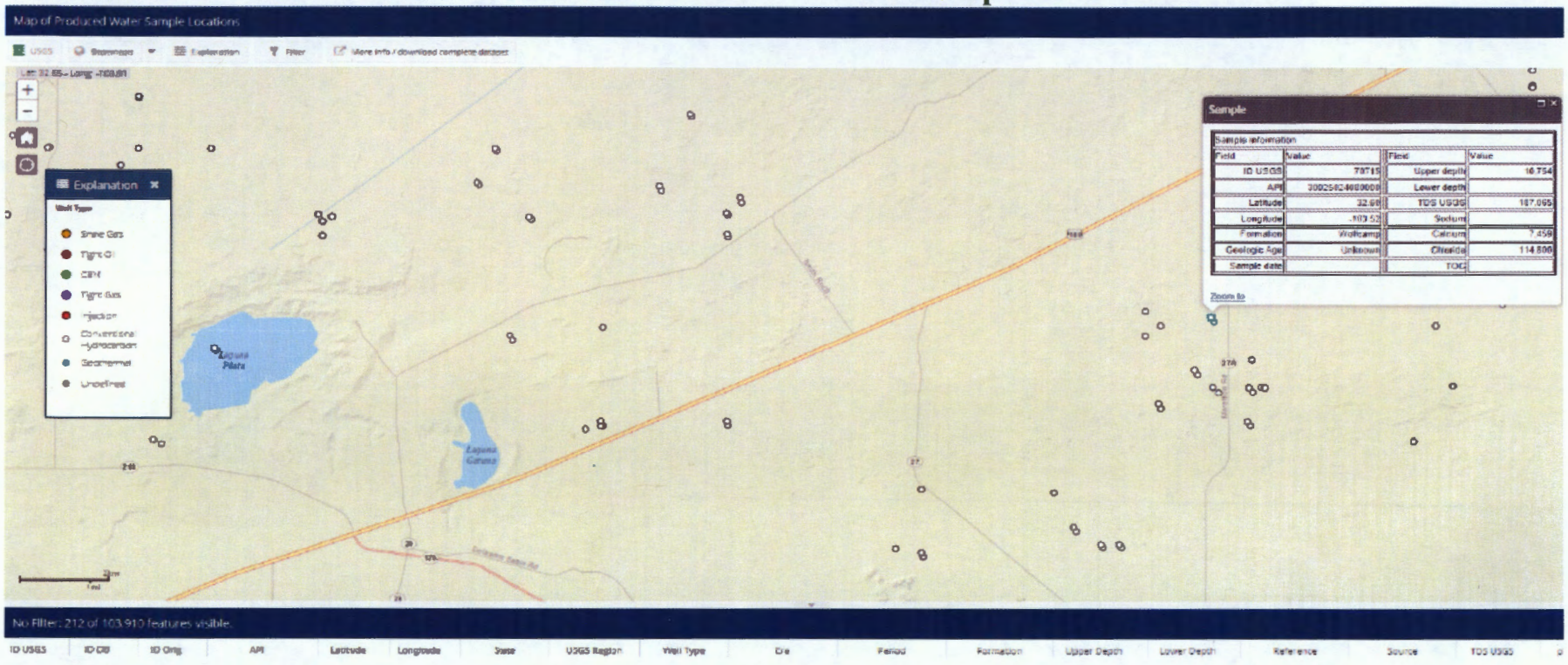


Sample Information			
Field	Value	Field	Value
ID USGS	69641	Upper depth	4,867
API	30015224710000	Lower depth	4,959
Latitude	32.07	TDS USGS	263,830
Longitude	-104.23	Sodium	101,000
Formation	Delaware	Calcium	1,940
Geologic Age	Pennsylvanian	Chloride	157,000
Sample date		TOC	

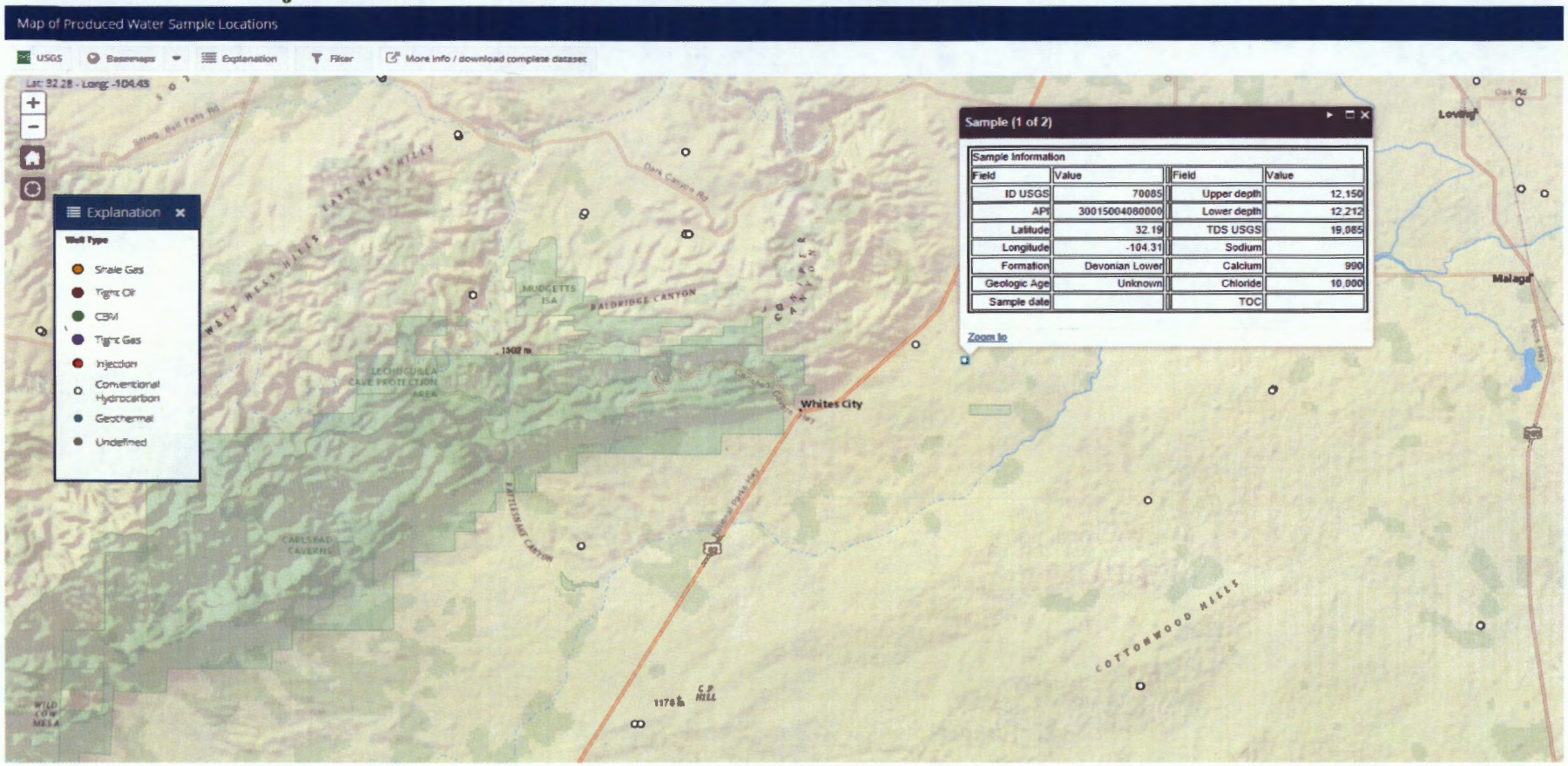
Attachment 4A - Source Zone Produced Water — Bone Spring



Attachment 4A - Source Zone Produced Water Wolfcamp

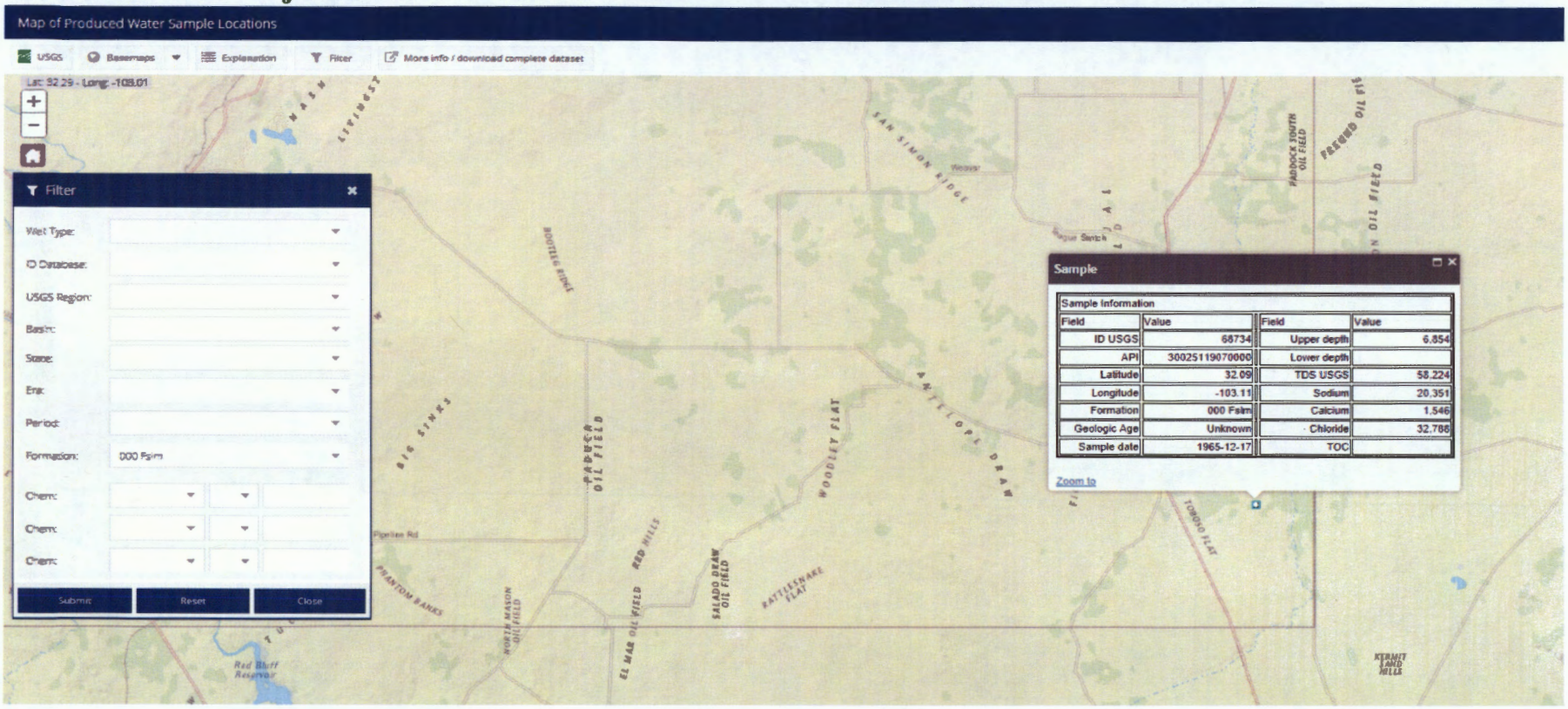


Attachment 4B - Injection Zone Produced Water Devonian



Attachment 4B - Injection Zone Produced Water

Fusselman



ATTACHMENT #5

A. Geological Description

B. Seismic Information

VIIIa Geologic Description

a. Attach appropriate geologic data on the injection zone including appropriate lithological detail, geologic name, thickness, and depth.

The proposed injection interval consists of sedimentary rock formations deposited during the Devonian and Silurian Periods. The Devonian Formation consists of porous dolomites, chert intervals and limestone (McGlasson, E.H. 1967). The thickness of the Devonian and Silurian Formations is estimated to be approximately 1,000 feet (ft.) locally. Sections of porous dolomite and limestone are believed to be present at the proposed injection site. The proposed injection interval is overlain by the Woodford Shale, which ranges in thickness from 100 to 300 ft. consists of organic-rich dark shales, black cherts, siltstone, sandstone and greenish-colored shales (Broadhead, R.F., 2010). Inferred depths of the proposed injection zone were estimated utilizing completions data from wells within the vicinity.

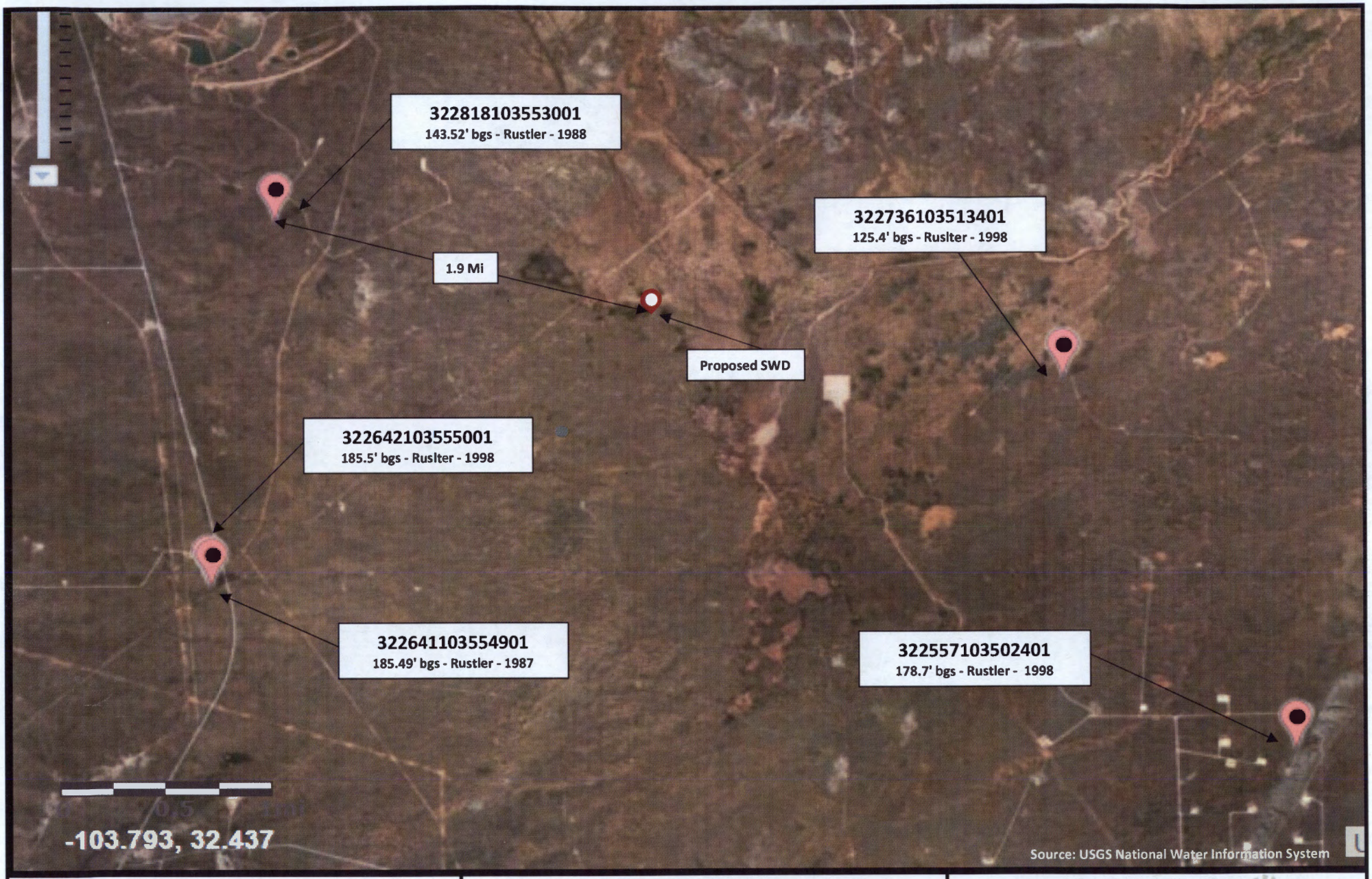
During the advancement of the proposed well, mud logging data will be utilized to ensure that the thickness of the Devonian and Silurian Formation is adequately defined, allowing for the proper placement of the packer, casing shoe and determination of the open-hole injection interval. Should logging data indicate depth adjustments are required for the casing program, applicable Sundry Notices will be filed with the NMOCD.

b. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/kg or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

A search of the USGS database suggests the historic presence of **five (5)** wells within the vicinity of the Site. **Each of the wells** were completed within the Rustler Formation. Data from wells with available information suggested static water levels ranged from **125.4 ft. bgs** as measured within Alluvium and Bolson deposits in a well approximately **2.1 Mi east** of the Site to **185.5 ft. bgs** as measured in a well approximately **2.5 Mi. southwest** of the Site. There are **no** USGS wells within a 1-Mile radius of the proposed injection well.

A search of the NMOSE database suggests the historic presence of **two (2)** wells within a 1-mile radius of the Site. The wells are were drilled to depths of **166 Ft. bgs** and **592 Ft. bgs**. If available and producing, **two (2)** of the identified fresh water wells will be sampled. Analytical results, if applicable, are provided in Attachment #6.

Other known sources of water may include the Salado and Castile Formations, which underly the Rustler Formation. Groundwater within the Rustler, Salado and Castile is not a viable source of drinking water. Sources of drinking water in the area may include Alluvium and Bolson Deposits; no wells were completed in Alluvium and Bolson Deposits within the 1-Mile Area of Review. No usable water is expected to be encountered beyond **300 Ft.** bgs.



LEGEND:

- Proposed SWD Location
- USGS Water Well (Reported)

Figure 3 - USGS Groundwater Resource Map

LilyStream Water Solutions, LLC

White SWD #2

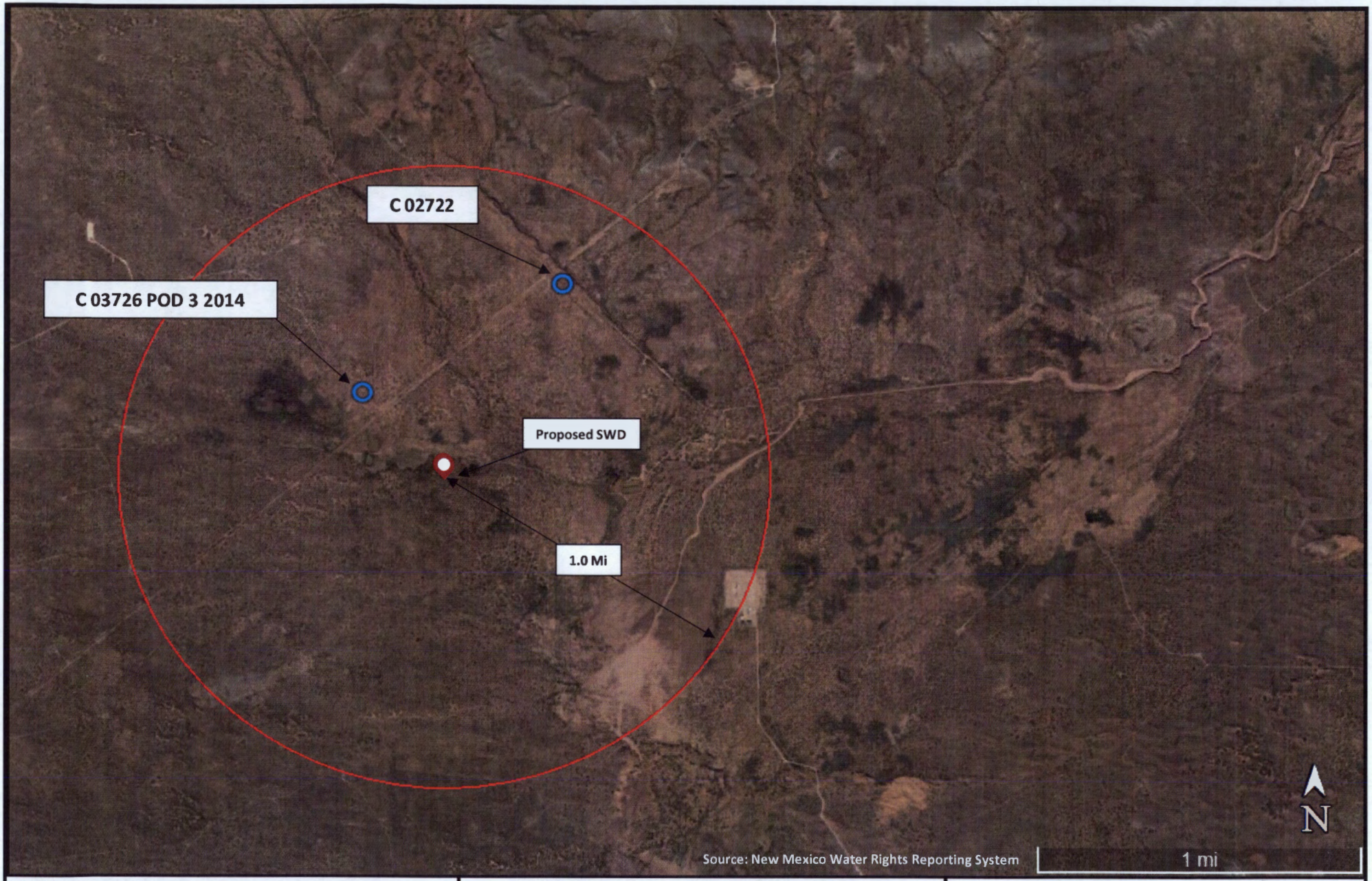
API No. Pending

Legals: UL I, Sec. 20,T21S, R30E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019



LEGEND:

- Proposed SWD Location
- OSE Water Well (Reported)

Figure 3b - OSE Groundwater Resource Map

LilyStream Water Solutions, LLC

White SWD #2

API No. Pending

Legals: UL I, Sec. 20,T21S, R30E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y		Distance	Depth Well	Depth Water	Water Column
C 03726 POD3		CUB	ED	4	3	2	20	21S	30E	603463	3592652	▪	534	166		
C 02722		CUB	ED	1	2	1	21	21S	30E	604435	3593203*	▪	1074	592		

Average Depth to Water: --
Minimum Depth: --
Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 603860.4 **Northing (Y):** 3592294.7 **Radius:** 1610

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02722	1	2	1	21	21S	30E	604435	3593203*

Driller License:	1292	**Driller Company:**	BENTLE WATER WELL SERVICE		
Driller Name:					
Drill Start Date:		**Drill Finish Date:**	12/31/1978	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.50	**Depth Well:**	592 feet	**Depth Water:**	

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 03726 POD3	4	3	2	20	21S	30E	603463	3592652

Driller License:	1210	**Driller Company:**	CASCADE DRILLING, LP		
Driller Name:	MARK GREEN				
Drill Start Date:	12/03/2014	**Drill Finish Date:**	12/20/2014	**Plug Date:**	
Log File Date:	02/13/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.00	**Depth Well:**	166 feet	**Depth Water:**	

Casing Perforations:	Top	Bottom
	101	105
	105	145

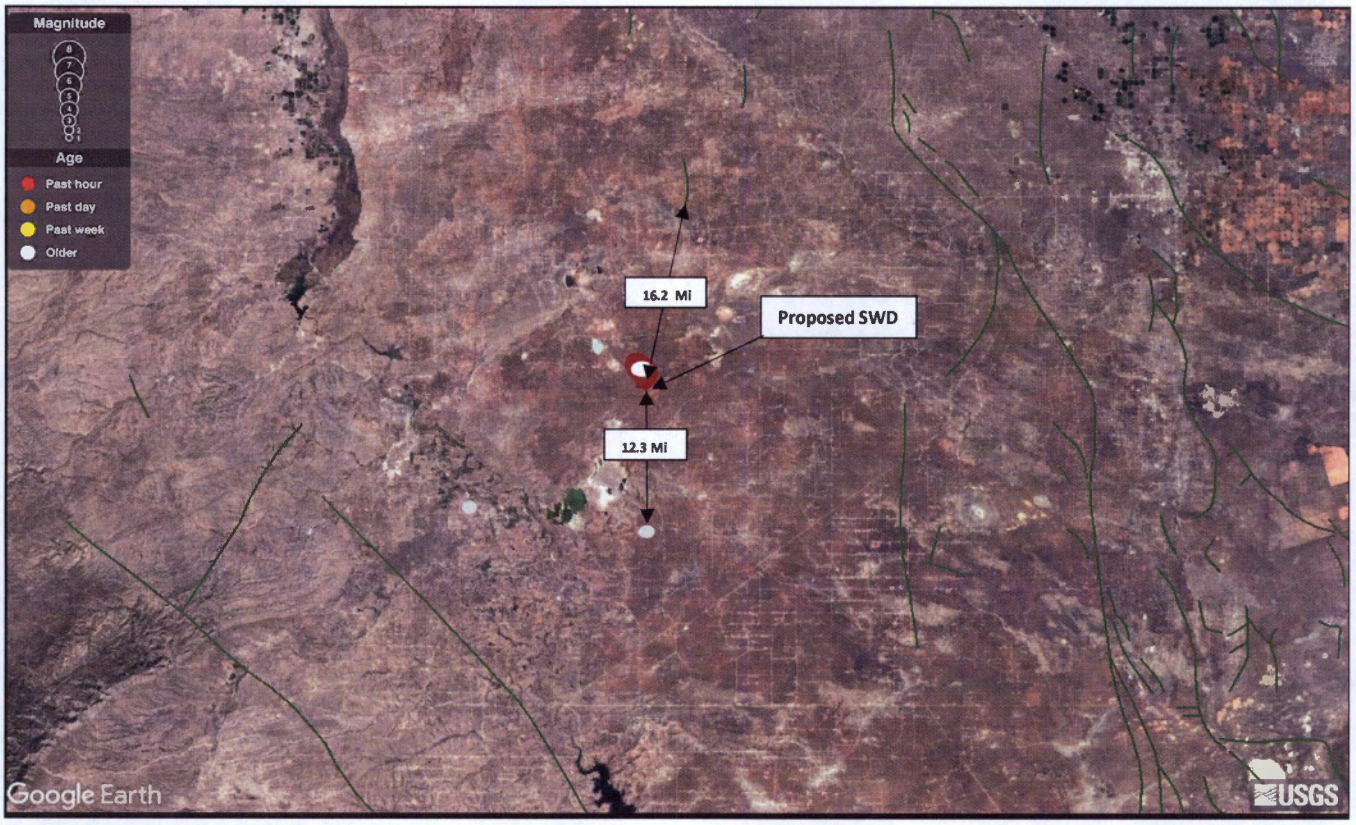
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

VIIIb Seismic Information

The proposed injection well is located within the western portion of the Delaware Basin in **Unit Letter "I", Section 20, Township 21 South, Range 30 East** in Eddy County, New Mexico. A review of USGS data available on the ComCat Earthquake Catalog indicates the nearest seismic event exceeding a magnitude of 0.1 occurred approximately **12.3 Mi** south of Site. The seismic event was reported as a magnitude 3.1 occurring in March of 2012.

The nearest fault trace is approximately **16.2 Mi north-northeast** of the proposed injection well. The fault trace is indicative of a normal fault striking North-South.

Data available on the ComCat Earthquake Catalog suggests the recorded seismic events within the region did not occur on the described faults.



Faults traces are depicted as green linear features. Seismic events with available data are depicted as grey dots of which the size is representative of the magnitude. Details regarding the depicted faults are provided on the following page.

Sources:

Bureau of Economic Geology. Accessed February 2019. Permian Basin Geologic Synthesis Project. https://gis.utlands.utsystem.edu/ags/rest/services/GeologicFeatures/MapServer

U.S. Geological Survey (USGS). February 2019. Earthquakes Hazard Program: ComCat Earthquake Catalog. https://earthquake.usgs.gov/learn/kml.php

VIIIb Seismic Information

A recent publication prepared by Snee and Zoback (2018) entitled "State of Stress in the Permian Basin, Texas and New Mexico" discusses the fault slip potential of fault traces complied from Ewing et al. (1990), Green and Jones (1997), Ruppel et al. (2005) as well the USGS Quaternary Faults and Fold Database. A map detailing their findings with the proposed injection well location superimposed is provided below:

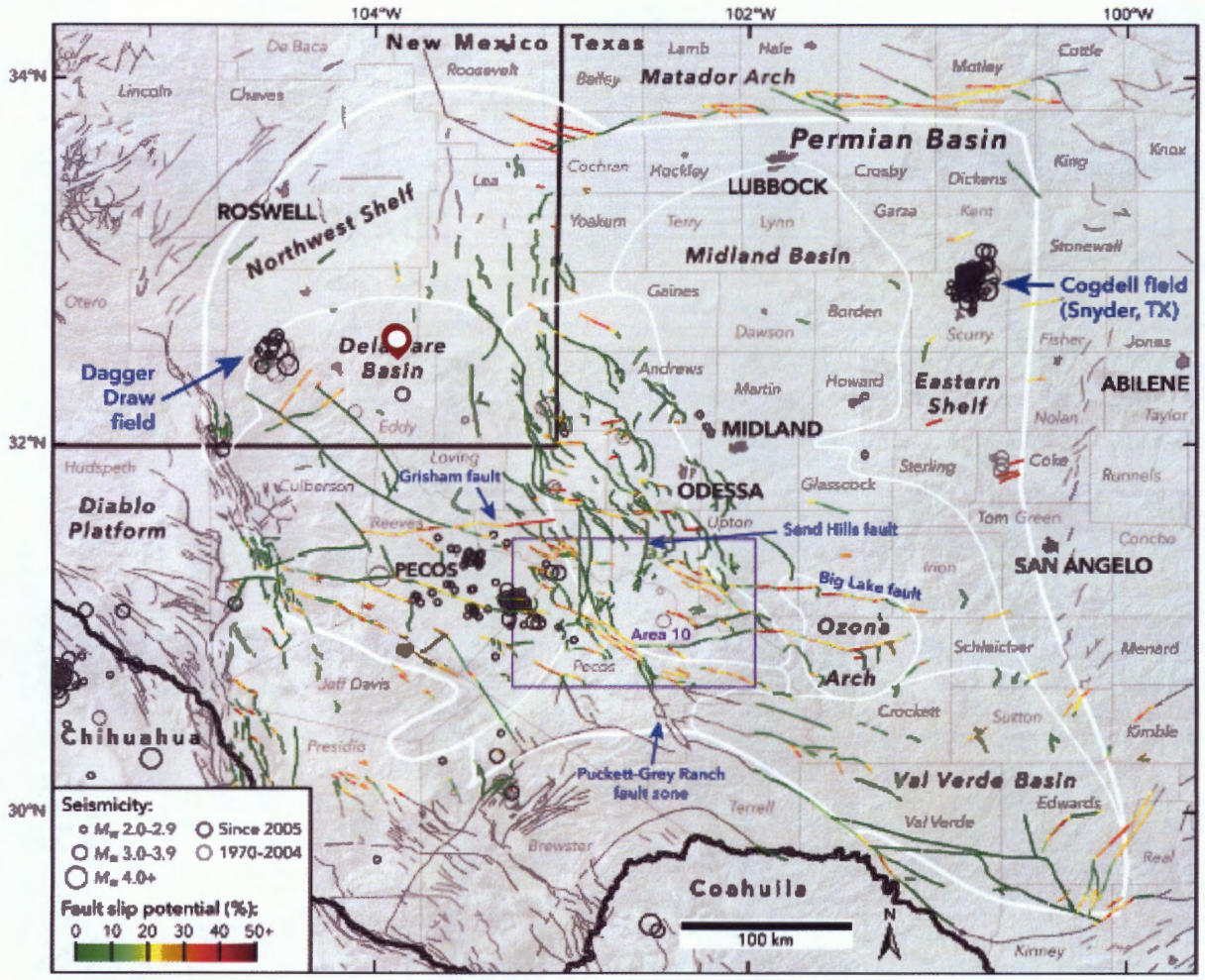


Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

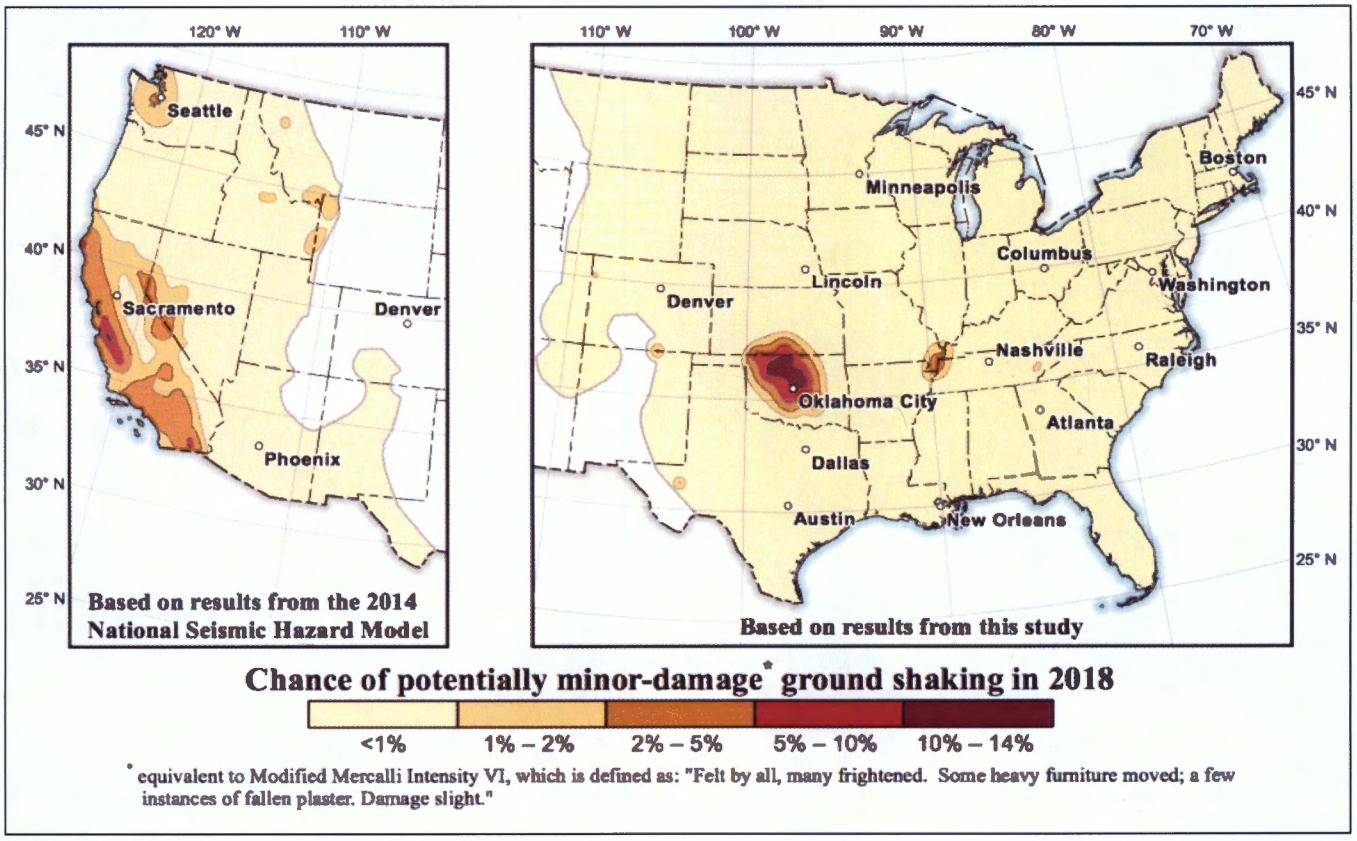
Based on the proposed injection well's distance to known faults, relative low faulting and seismic activity in the area, review of historical earthquake data and the presence of confining layers above and beneath the proposed injection zone, it is unlikely that the proposed injection activities will contribute to a fault-slip event.

Source:

Snee, Jens-Erik Lund, and Mark D. Zoback. 2018 "State of Stress in the Permian Basin, Texas and New Mexico; Implication for Induced Seismicity." The Leading Edge 37 (February 2018).

VIIIb Seismic Information

Data from the 2018 USGS One-Year probabilistic seismic hazard forecast suggests there was a less than 1% chance of potentially minor-damage from induced and natural ground shaking in 2018, as depicted on the map below:



Source:

U.S. Geological Survey (USGS). February 2019. Earthquakes Hazard Program: Short-term Induced Seismicity Models. https://earthquake.usgs.gov/hazards/induced/index.php#2018

ATTACHMENT #6

Fresh Water Laboratory Analysis (*if applicable*)

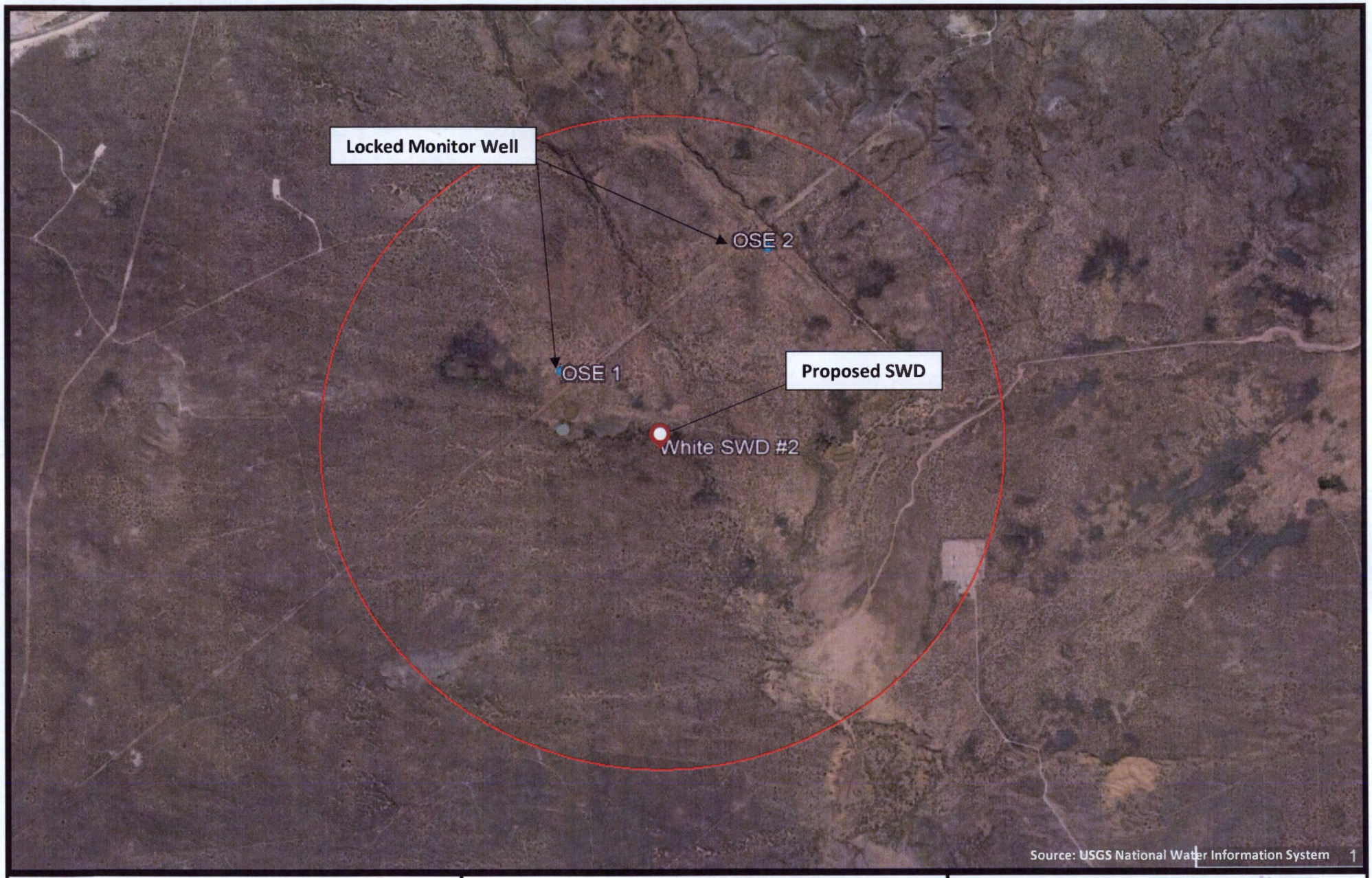
Fresh Water Sample Location Map (*if applicable*)

Re: Fresh Water Analysis
LilyStream Water Solutions, LLC
White SWD #2
GPS: 32.462995, -103.894868

On May 14, 2019, environmental personnel visited the Site in an effort to collect groundwater samples from fresh water wells in the vicinity of the proposed salt water disposal well. Available information suggests the historic presence of two (2) wells within a 1-Mile Radius of the Site. The identified wells were groundwater monitor wells, which were locked and not available for sampling at the time.

Joel W. Lowry

LOWRY
environmental



LEGEND:

- Proposed SWD Location
- Suggested Fresh Water Well

Fresh Water Sample Location Map

LilyStream Water Solutions, LLC

White SWD #2

API No. Pending

GPS: 32.462995, -103.894868

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 5/15/2019

ATTACHMENT #7

Affirmative Statement

XII. AFFIRMATIVE STATEMENT

Re: LilyStream Water Solutions, LLC
White SWD #2
Legals: UL I, Sec. 20, T21S, R30E

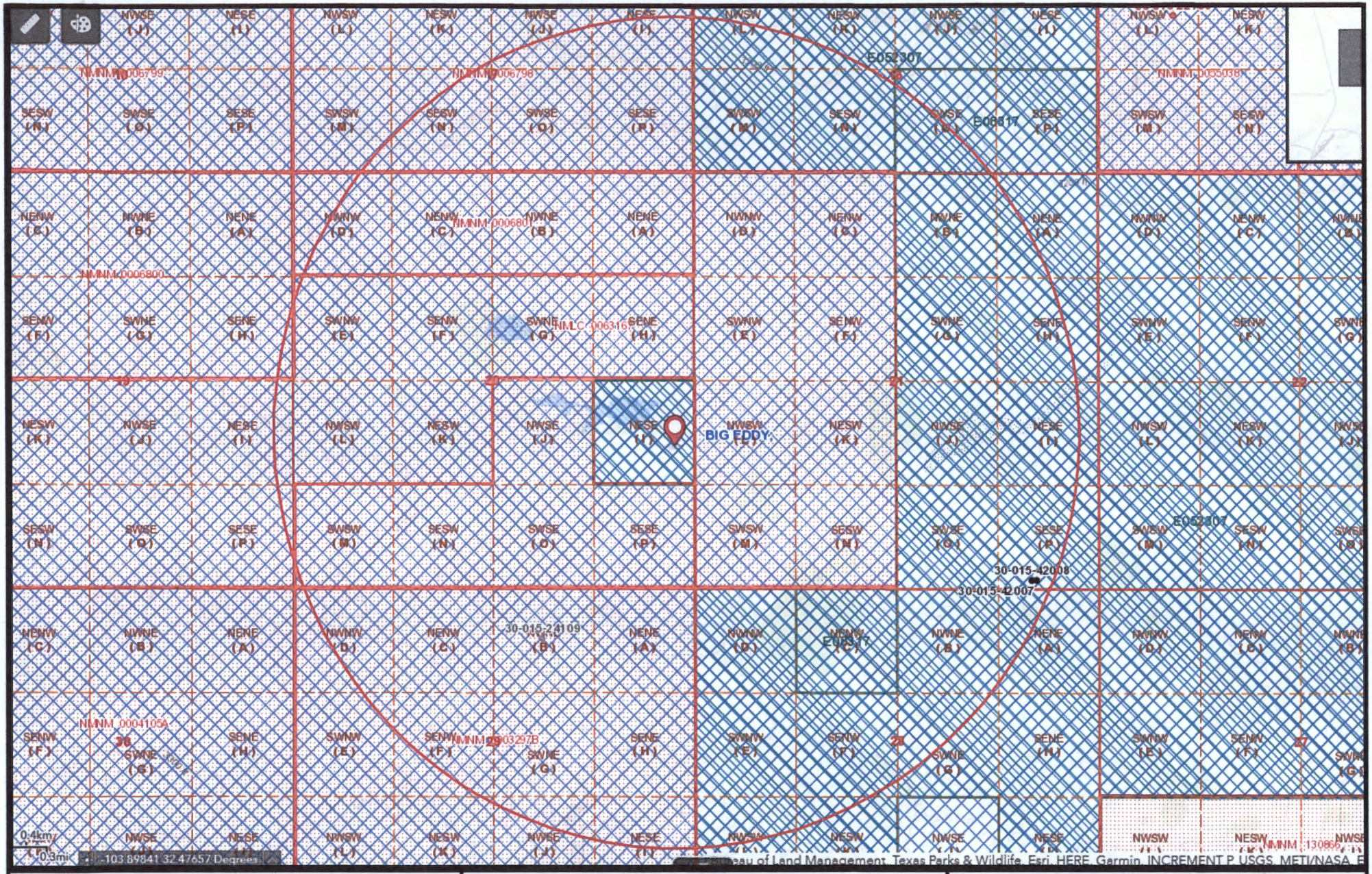
Available geologic and engineering data has been examined and we find no evidence of open faults or any hydrologic connection between the disposal interval and any underground sources of drinking water.

Joel W. Lowry

LOWRY environmental

ATTACHMENT #8

Proof of Notice Documentation



LEGEND:

- Proposed SWD Location
- 1-Mile Radius

Figure 4 - Leasehold Operator Map

LilyStream Water Solutions, LLC

White SWD #2

API No. Pending

Legals: UL I, Sec. 20,T21S, R30E

Eddy County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 2/11/2019

XIV. PROOF OF NOTICE

Surface Owner:

Tanya White
P.O. Box 1764
Carlsbad, NM 88221
7017 2620 0000 9987 2374

Leasehold Operators and/or Unleased Mineral Owners within a One-Mile Radius:

BOPCO, LP
6401 Holiday Hill Rd Bldg 5
Midland, TX 79707
7017 2620 0000 9987 2435

BEPCO, LP
201 Main St.
Fort Worth, TX 76102
7017 2620 0000 9987 2442

XTO Permian Operating LLC
6401 Holiday Hill Rd Bldg 5
Midland, TX 79707
7017 2620 0000 9987 2350

XTO Delaware Basin, LLC
22777 Springwoods Village PKWY
Spring, TX 77389
7017 2620 0000 9987 2381

Teledyne Industries Inc.
C/O Bank Of America
P.O. Box 830308
Dallas, TX 75283
7017 2620 0000 9987 2367

Thru Line OG NM LLC
201 Main St #2700
Fort Worth, TX 76102
7017 2620 0000 9987 2343

SRBI OG NM LLC
201 Main St #2700
Fort Worth, TX 76102
7017 2620 0000 9987 2336

Bureau of Land Management
301 Dinosaur Trail
Santa Fe, NM 87508
7017 2620 0000 9987 2329

Regulatory Agency:

NMOCD - Santa Fe
1220 S. St. Francis Dr.
Santa Fe, NM 87505
7017 2620 0000 9987 2428

NMOCD - District 2
811 S. First
Artesia, NM 88210
7017 2620 0000 9987 2459

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City, State, ZIP+4®: Dallas, TX 75283

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Affidavit of Publication

No. 25129

State of New Mexico

County of Eddy:

Danny Scott Danny Scott

being duly sworn sayes that he is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same day as follows:

First Publication	May 19, 2019
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	

Subscribed and sworn before me this

21st day of May 2019

OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 5/12/2023

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

LilyStream Water Solutions, LLC, 1308 W. Ave D, Lovington, NM 88260, is filing Form C-108 for an application for Authority to Inject with the New Mexico Oil and Conservation Division requesting administrative approval for a salt water disposal well. The proposed newly drilled well, the White SWD No. 2 is located at 1,980' FSL & 250' FEL, Section 20, Township 21S Range 30E, N.M.P.M., Eddy County, New Mexico: From the intersection of NM HWY 62-180 and Potash Mines Road (31) travel South 4 miles on Potash Mines Road and then East 3 miles on existing caliche road. (API # to be assigned). Produced water from area oil and gas producing wells will be commercially disposed into the Devonian and Silurian formations from 14,521' to 15,566' below surface. Expected maximum injection rate is 30,000 bpd, and the expected maximum injection pressure is 2,904 psi. Questions concerning the application can be directed to the applicant's agent Lowry Environmental, LLC, PO Box 948, Lovington, NM 88260, by phone (432) 466-4450 or email joel@lowryenvironmental.com. Objections or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within 15 days.

Published in the Artesia Daily Press, Artesia, N.M., May 19, 2019 Legal No. 25129.

Goetze, Phillip, EMNRD

From: Rutley, James <jrutley@blm.gov>
Sent: Monday, June 3, 2019 1:00 PM
To: McMillan, Michael, EMNRD; Jones, William V, EMNRD; Goetze, Phillip, EMNRD; Murphy, Kathleen A, EMNRD; Lowe, Leonard, EMNRD
Subject: [EXT] LilyStream White SWD 2 - S20 21S 30E 1980S & 250E
Attachments: LilyStream Water Soluitons - White SWD 2 - 2019-05-30.PDF; LilyStream White SWD 2 - S20 21S 30E 1980S & 250E.jpg

Good Afternoon Mike,

We have received LilyStream White SWD 2. The application is outside of the half mile mine working buffer as shown in attached map, but within Intrepid's LMR and would require a waiver from Intrepid Potash. BLM would prefer SWD be on drill island located approximately a mile to the southeast.

Thanks,

Jim

James S. Rutley

Geologist (Potash Specialist)

Carlsbad Field Office

Bureau of Land Management

(575) 234-5904

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McMillan, Michael, EMNRD

From: McMillan, Michael, EMNRD
Sent: Wednesday, June 5, 2019 3:10 PM
To: joel@lowryenvironmental.com
Cc: Goetze, Phillip, EMNRD
Subject: LilyStream Water Solutions, LLC White SWD Well No. 2 Suspended application

Joel:
Your administrative SWD application for the LilyStream Water Solutions, LLC White SWD Well No. 2 has been suspended.

The NMSLO was not notified.

After the OCD receives proof of mailing to the NMSLO your application will not be suspended.

Mike

Michael McMillan
1220 South St. Francis
Santa Fe, New Mexico
505-476-3448
Michael.mcmillan@state.nm.us

McMillan, Michael, EMNRD

From: Caden Jameson <cjameson@3b-services.com>
Sent: Thursday, June 6, 2019 10:30 AM
To: McMillan, Michael, EMNRD
Subject: [EXT] Fwd: LilyStream Water Solutions, LLC - Proof of Notice (SLO)
Attachments: LilyStream - Bounds SWD #4- SLO Proof of Notice.pdf; LilyStream - White SWD #2- SLO Proof of Notice.pdf; LilyStream - White SWD #1- SLO Proof of Notice.pdf

Mr. McMillan,

Per your request, attached are the proofs of notice for recent permits submitted by Lowry Environmental on behalf of LilyStream Water Solutions. The proofs of Notice are attached to this email for the following wells.

Bounds SWD #4
White SWD #1
White SWD #2

Thank you

Caden Jameson
LilyStream Water Solutions
432.254.5559
cjameson@3b-services.com

---------- Forwarded message ---------
From: **Joel Lowry** <joel@lowryenvironmental.com>
Date: Thu, Jun 6, 2019 at 10:04 AM
Subject: LilyStream Water Solutions, LLC - Proof of Notice (SLO)
To: Caden Jameson <cjameson@3b-services.com>

Mr. Jameson,

Please find attached the requested proof of notice documentation for the White SWD #1, White SWD #2 and Bounds SWD #4. I apologize for having missed this.

Respectfully,

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06/06/2019

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City, State, ZIP+4®
Santa Fe, NM 87504

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions