

**UICI-11**

**MONITOR**

**WELL**

**2022**

**From:** [Russell, Gary F.](#)  
**To:** [Chavez, Carl J. EMNRD](#)  
**Cc:** [Devin Hencmann](#); [Stuart Hyde](#); [Goetze, Phillip. EMNRD](#)  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield  
**Date:** Wednesday, March 2, 2022 5:03:51 PM  
**Attachments:** [image002.png](#)

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Mr. Chavez,

The new monitoring well was installed last week and developed this week. The well water level will be gauged and sampled (for Cl and SO4) and the data will be included in this upcoming Quarterly Report for Q1 2022.

Thank you.



Gary Russell, CHMM  
Sr. HES Professional  
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112 TownPark Dr, Suite 125  
Kennesaw, GA 30144  
Office: 678-594-6377  
Mobile: 210-970-1970  
Email: [gfrussell@marathonpetroleum.com](mailto:gfrussell@marathonpetroleum.com)

---

**From:** Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>  
**Sent:** Wednesday, March 2, 2022 2:17 PM  
**To:** Russell, Gary F. <GFRussell@Marathonpetroleum.com>  
**Cc:** Devin Hencmann <devin.hencmann@wsp.com>; Stuart Hyde <stuart.hyde@wsp.com>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Gary, et al.,

Has the Monitoring Well been installed? If so, is Western planning to collect a static-water level measurement and sample this monitor well during this quarterly sampling event?

Thank you.

**Carl J. Chavez** • UIC Group  
Engineering Bureau  
EMNRD - Oil Conservation Division

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**From:** Russell, Gary F. <[GFRussell@Marathonpetroleum.com](mailto:GFRussell@Marathonpetroleum.com)>  
**Sent:** Monday, February 7, 2022 11:19 AM  
**To:** Chavez, Carl J, EMNRD <[CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)>  
**Cc:** Devin Hencmann <[devin.hencmann@wsp.com](mailto:devin.hencmann@wsp.com)>; Stuart Hyde <[stuart.hyde@wsp.com](mailto:stuart.hyde@wsp.com)>; Goetze, Phillip, EMNRD <[Phillip.Goetze@state.nm.us](mailto:Phillip.Goetze@state.nm.us)>  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Mr. Chavez,

Thank you very much for the response and update. The tentative date for the monitoring well installation is February 24<sup>th</sup>. We do not need to have a call to discuss the well installation since OCD has approved the work plan. We appreciate the information and will await the details regarding the modification request.

Thank you.



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**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining

Southwest - Bloomfield

Gary, et al.,

Good morning!

Subsequent to your request for a MS Teams Meeting below with the MW installation Work Plan which OCD has approved. Please do not delay the installation based on your recent meeting request.

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In the interim, you may propose some dates and times for an MS Teams Meeting to the OCD and we will check our availability. Fridays have been generally good day in the morning, but please proceed if you still want a meeting.

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**Sent:** Monday, January 24, 2022 1:31 PM

**To:** Chavez, Carl J, EMNRD <[CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)>

**Cc:** Hencmann, Devin <[Devin.Hencmann@wsp.com](mailto:Devin.Hencmann@wsp.com)>; Hyde, Stuart <[Stuart.Hyde@wsp.com](mailto:Stuart.Hyde@wsp.com)>

**Subject:** [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

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Mr. Chavez

Happy new year! Western Refining Southwest received the notification from you in November of 2021 to move forward with the installation of a new groundwater monitoring well in association with the Discharge Permit UICI-11 (WDW-2). WSP (Stuart Hyde and Devin Hencmann) have developed a well installation work plan and I have attached it to this email. The work plan includes details of the historical facility groundwater configuration and proposed monitoring well installation details. Currently, the tentative installation date is February 24<sup>th</sup> based on availability of contracted drilling companies.

We would like to review the proposed work plan with you, discuss any additional information that might be needed, and get OCD approval to move forward. Please let me know if you have availability for a call to discuss the plan today (Monday 1/24) or any day this week. I look forward to hearing from you.

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**Date:** Wednesday, March 2, 2022 2:17:00 PM  
**Attachments:** [image002.png](#)

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Mr. Chavez

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**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield  
**Date:** Monday, February 7, 2022 11:19:13 AM  
**Attachments:** [image002.png](#)

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**From:** [Chavez, Carl J. EMNRD](#)  
**To:** [Russell, Gary F.](#); [Goetze, Phillip, EMNRD](#)  
**Cc:** [Hencmann, Devin](#); [Hyde, Stuart](#)  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield  
**Date:** Tuesday, February 1, 2022 2:29:00 PM  
**Attachments:** [image002.png](#)

---

Gary, et al.,

Approved.

OCD will E-doc the thumbnail with this approval and work plan into the "UICI-11" Admin. Record for WDW-2.

In the future, you need to submit via E-Permitting System.

Thank you.

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**From:** Russell, Gary F. <GFRussell@Marathonpetroleum.com>  
**Sent:** Tuesday, February 1, 2022 1:48 PM  
**To:** Chavez, Carl J, EMNRD <CarlJ.Chavez@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>  
**Cc:** Hencmann, Devin <Devin.Hencmann@wsp.com>; Hyde, Stuart <Stuart.Hyde@wsp.com>  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Mr. Chavez,

We evaluated the conditions around the injection well and were able to locate an alternative monitoring well location. The new monitoring well location is approximately 30 feet downgradient from the injection well. This location is approximately 60 feet closer to the injection well. The Installation Plan Figure has been updated to reflect this new location and is attached here for your review.

Let me know if you have any additional questions or concerns. Thank you.

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Gary, et al.,

OCD looked over the piezometric surface map and noticed the lack of a monitoring well (MW) or point near the injection well to substantiate the map nearby and hydrogeologically downgradient from the injection well. Also, to have confidence the MW will yield more accurate monitoring results from the injection well location.

Is it possible to locate the monitor well closer to the injection well?

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**Sent:** Monday, January 31, 2022 1:09 PM  
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<[Phillip.Goetze@state.nm.us](mailto:Phillip.Goetze@state.nm.us)>

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**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Mr. Chavez,

Western Refining Southwest and WSP selected a monitoring well location that is within 100 feet of the Injection Well and that is downgradient of the Injection Well. The location of the new monitoring well was chosen based on the following criteria:

- In the email communication dated November 23, 2021 OCD instructed that the “new MW is required within 100 ft. downgradient of the injection well”.
- The location was also selected specifically to not obstruct or interfere with existing facility infrastructure (underground piping, roadways, etc.).

A map depicting the groundwater flow gradient and the proposed location was provided for reference with the installation plan.

We would like the opportunity to discuss this installation plan and get approval to proceed. Additionally we would like the opportunity to discuss the minor permit modification for UICI-011 (WDW-2) that was submitted to OCD on December 16, 2021 (Action ID 67462). Please let us know when you have availability.

Thank you very much and let me know if you need any additional information.



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Gary, et al.,

Good morning!

Please provide the justification for the location of the MW.

Thank you.

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**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield  
**Date:** Tuesday, February 1, 2022 1:48:50 PM  
**Attachments:** [image002.png](#)  
[2022 Well Installation Work Plan Bloomfield Products Terminal 20220201.pdf](#)

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**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Mr. Chavez,

Western Refining Southwest and WSP selected a monitoring well location that is within 100 feet of the Injection Well and that is downgradient of the Injection Well. The location of the new monitoring well was chosen based on the following criteria:

- In the email communication dated November 23, 2021 OCD instructed that the “new MW is required within 100 ft. downgradient of the injection well”.
- The location was also selected specifically to not obstruct or interfere with existing facility infrastructure (underground piping, roadways, etc.).

A map depicting the groundwater flow gradient and the proposed location was provided for reference with the installation plan.

We would like the opportunity to discuss this installation plan and get approval to proceed. Additionally we would like the opportunity to discuss the minor permit modification for UICI-011 (WDW-2) that was submitted to OCD on December 16, 2021 (Action ID 67462). Please let us know when you have availability.

Thank you very much and let me know if you need any additional information.

Gary Russell, CHMM  
Environmental Professional  
L&S Terminals  
112 TownPark Dr, Suite 125  
Kennesaw, GA 30144



Office: 678-594-6377  
Mobile: 210-970-1970  
Email: [gfrussell@marathonpetroleum.com](mailto:gfrussell@marathonpetroleum.com)

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**From:** Chavez, Carl J, EMNRD <[CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)>  
**Sent:** Monday, January 31, 2022 11:20 AM  
**To:** Russell, Gary F. <[GFRussell@Marathonpetroleum.com](mailto:GFRussell@Marathonpetroleum.com)>  
**Cc:** Hencmann, Devin <[Devin.Hencmann@wsp.com](mailto:Devin.Hencmann@wsp.com)>; Hyde, Stuart <[Stuart.Hyde@wsp.com](mailto:Stuart.Hyde@wsp.com)>;  
Goetze, Phillip, EMNRD <[Phillip.Goetze@state.nm.us](mailto:Phillip.Goetze@state.nm.us)>  
**Subject:** RE: [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

Gary, et al.,

Good morning!

Please provide the justification for the location of the MW.

Thank you.

**Carl J. Chavez** • UIC Group  
Engineering Bureau  
EMNRD - Oil Conservation Division  
5200 Oakland Avenue, N.E. Suite 100 | Albuquerque, NM 87113  
505.660.7923  
[www.emnrd.nm.gov](http://www.emnrd.nm.gov)



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**From:** Russell, Gary F. <[GFRussell@Marathonpetroleum.com](mailto:GFRussell@Marathonpetroleum.com)>  
**Sent:** Monday, January 24, 2022 1:31 PM  
**To:** Chavez, Carl J, EMNRD <[CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)>  
**Cc:** Hencmann, Devin <[Devin.Hencmann@wsp.com](mailto:Devin.Hencmann@wsp.com)>; Hyde, Stuart <[Stuart.Hyde@wsp.com](mailto:Stuart.Hyde@wsp.com)>  
**Subject:** [EXTERNAL] Groundwater Monitoring Well Installation Plan- Western Refining Southwest - Bloomfield

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CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Chavez

Happy new year! Western Refining Southwest received the notification from you in November of 2021 to move forward with the installation of a new groundwater monitoring well in association with the Discharge Permit UICI-11 (WDW-2). WSP (Stuart Hyde and Devin Hencmann) have developed a well installation work plan and I have attached it to this email. The work plan includes details of the historical facility groundwater configuration and proposed monitoring well installation details. Currently, the tentative installation date is February 24<sup>th</sup> based on availability of contracted drilling companies.

We would like to review the proposed work plan with you, discuss any additional information that might be needed, and get OCD approval to move forward. Please let me know if you have availability for a call to discuss the plan today (Monday 1/24) or any day this week. I look forward to hearing from you.

Thank you.



Gary Russell, CHMM  
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January 24, 2022

Mr. Carl Chavez  
Engineering Bureau  
New Mexico Energy, Minerals, and Natural Resources Department - Oil Conservation Division  
5200 Oakland Avenue, N.E. Suite 100  
Albuquerque, New Mexico 87113

**Subject:           Monitoring Well Installation Work Plan  
Discharge Permit UICI-11 (WDW-2)  
Bloomfield Products Terminal  
Western Refining Southwest LLC  
Bloomfield, New Mexico**

Dear Mr. Chavez:

WSP USA Inc. (WSP), on behalf of Western Refining Southwest LLC (Western), is submitting this work plan describing the proposed activities for the upcoming monitoring well installation. The New Mexico Oil Conservation Division (NMOCD) has requested that one additional monitoring well be installed as part of the Discharge Permit UICI-11 (WDW-2) dated August 30, 2021.

## **BACKGROUND**

Several historical releases have occurred at the Site due to past refinery operations (refinery operations ceased in 2009). Groundwater-monitoring activities have been conducted at the Terminal since the early 1990's in response to various directives issued by the New Mexico Environment Department (NMED) and NMOCD. Additionally, several remedial actions have been conducted at the Terminal to address historical contamination. Existing groundwater monitoring well locations associated with the Site are shown on Figure 1.

Existing groundwater monitoring wells at the Site are installed in the uppermost water-bearing unit, which consists of unconsolidated Quaternary Jackson Lake terrace deposits that unconformably overlie the Tertiary Nacimiento Formation. The Jackson Lake terrace deposits generally consist of fine-grained sand, silt, and clay that grades with depth to coarse sand, gravel, and cobble size material until the contact with the Nacimiento Formation (which consists of fractured mudstone and claystone with interbedded sandstone lenses). Groundwater present within the Jackson Lake terrace deposits is likely sourced from infiltration of surface water, which is perched on top of the relatively impermeable mudstone and claystone lithologies of the Nacimiento Formation. Based on sampling data for wells screened in the Jackson Lake terrace deposits, significant volumes of groundwater are not present in the uppermost water-bearing unit and the thickness of this perched groundwater is generally less than 10 feet across the Site.

Several wells at the Site have also been constructed with well screens intersecting both the Jackson Lake terrace deposits and the Nacimiento Formation. During well-installation events, the Nacimiento Formation has been found to be highly variable below the top of the formation. Wells with screened intervals installed in the Nacimiento Formation generally do not produce measurable volumes of water during sampling events. Based on boring-log descriptions and well-construction information for these wells, it is believed that perched groundwater in the area of these wells permeates into thin sand/sandstone lenses present within the Nacimiento Formation (as opposed to remaining perched on top of the formation).

## **PROPOSED MONITORING WELL INSTALLATION**

Based on the information presented above, it is recommended that the new well installed at the Site is constructed with the well screen placed at or on top of the contact between the Jackson Lake terrace deposits and the Nacimiento

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DURANGO CO 81301

Tel.: 970-385-1096  
wsp.com



Formation. The new well will be located within 100 feet and hydraulically downgradient of injection well WDW-2 (proposed well location shown on Figure 1). The well will be constructed in accordance with all applicable federal, state, and local laws and regulations. Prior to on-Site activities, permits from the New Mexico Office of the State Engineer (NMOSE) for the proposed well will be obtained. At least two days prior to commencing drilling, appropriate utility companies or locating services will be notified and all utility locations will be marked. For the specific well location, the utilities covered by New Mexico 811 will be ascertained, and any additional utilities will be contacted independently. Because of the historical use of the Site and potentially unidentified utilities, the well location will also be cleared for utilities using an air knife and vacuum truck to 5 feet below ground surface (bgs) and will be performed by the contracted drilling company.

WSP will retain a New Mexico licensed driller (Enviro-Drill, Inc.) to install the well at the Site. Due to the anticipated subsurface lithology of gravel and cobbles, Overburden Drilling EXcentric (ODEX) drilling and sampling equipment will be used to install the well. Soil samples will be collected and logged continuously and visually described according to the Unified Soil Classification System (USCS) including color, grain size, texture, description of lithification, plasticity, and clay content. Information regarding subsurface conditions will be recorded on a boring log. The boring will be advanced into the saturated zone and will be terminated once consolidated rock associated with the Nacimiento Formation is encountered (anticipated to be 10 to 30 feet below ground surface).

The well will be constructed of 2-inch, schedule 40 polyvinyl chloride (PVC) piping with a minimum screen length of 15 feet (using 0.010 inch slots) having approximately 5 to 10 feet of screen within the saturated zone (depending on thickness of saturated interval). A sand pack consisting of 10-20 silica sand will be placed from the bottom of the screen to approximately 2 feet above the screened interval. A three-foot seal of hydrated bentonite will be placed above the sand pack, with the remaining annular space filled with cement grout and/or bentonite-based sealing material. An 8-inch diameter, limited access, steel, flush-mount monument will be installed to protect and identify the monitoring well. Concrete bollards will be placed around the well monument to protect the integrity of the well from vehicle/equipment traffic at the Site.

The well will be allowed to stabilize and cure for at least 24 hours after installation and prior to development. The well will be developed by surging and bailing/pumping so that formation water flows freely through the well screen and is not turbid. All sediment and drilling disturbances should be removed during the development process. After development, the wells will be allowed to restabilize for at least 48 hours prior to purging and sampling. After completion, the well location and elevation will be surveyed in order to calculate groundwater elevations above mean sea level. Data collected from this and other Site wells will be used to infer groundwater flow direction and hydraulic gradient.

If you have any questions, please do not hesitate to contact WSP at [stuart.hyde@wsp.com](mailto:stuart.hyde@wsp.com) or at (970) 385-1096 or Western at [gfrussell@marathonpetroleum.com](mailto:gfrussell@marathonpetroleum.com) or at (678) 594-6377.

Kind regards,

A handwritten signature in black ink, appearing to read 'Stuart Hyde'.

Stuart Hyde, L.G.  
Senior Geologist

**Attachments:**

Figure 1 Groundwater Elevation Map

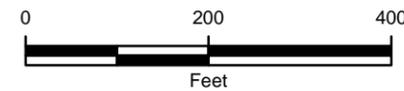
## FIGURES



**LEGEND**

- ★ INJECTION WELL
- ★ WELL USED FOR CONTOURING
- MONITORING WELL
- PROPOSED MONITORING WELL
- ↑ GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR

IMAGE: LTE DRONE SURVEY NOVEMBER 6, 2019  
BACKGROUND IMAGERY COURTESY OF GOOGLE EARTH



**FIGURE 1**  
GROUNDWATER ELEVATION MAP  
BLOOMFIELD PRODUCTS TERMINAL  
SAN JUAN COUNTY, NEW MEXICO  
SEC 27 & 26 T29N R11W  
WESTERN REFINING TERMINALS, LLC.

