



GROUNDWATER MONITORING PROGRAM CSD TITLE 22, SECTION 310.050.S

First Quarter 2021

Groundwater Monitoring Results

Inglewood Oil Field

Sentinel Peak Resources California LLC

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SCS ENGINEERS

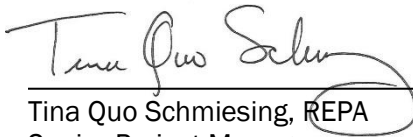
Project No. 01218001.00 | April 2021

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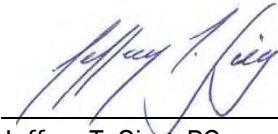
This report titled "Groundwater Monitoring Program, CSD Title 22, Section 310.050.S, First Quarter 2021 Groundwater Monitoring Results, Inglewood Oil Field", dated April 2021, was prepared and reviewed by the following:



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OPERATORS STATEMENT

Sentinel Peak Resources California LLC is the proud operator of the Inglewood Oil Field, located in the Baldwin Hills area of Los Angeles County. The preservation of the environment and the health and safety of our employees and our neighbors are our highest priorities. We are focused on acquiring, developing, and exploring oil and gas assets in the most environmentally conscientious way possible. We include the environment in our operational and financial decision-making processes which we believe leads to better decisions. Through innovation, thoughtful safeguards, and responsible operations, we minimize our environmental impact.

Sentinel Peak Resources California LLC's focus on environmentally sound operational practices is at the heart of who we are. In the Inglewood Oil Field, that includes helping to protect the groundwater and surface water resources that surround the field. Links to information to help interested parties stay fully informed on water issues in their area, and provide the basis for making good decisions about protecting their local water resources, are in the reference section at the end of this report.

1 INTRODUCTION

SCS Engineers (SCS) was retained by Sentinel Peak Resources California LLC (SPR) to perform groundwater sampling and reporting for the first quarter of 2021 period at the Inglewood Oil Field (the “Site”) located in the Baldwin Hills area of Los Angeles County. A map showing the general location of the Site is provided as Figure 1.

GENERAL BACKGROUND

In October 2008, the Los Angeles County Board of Supervisors (County) approved the Baldwin Hills Community Standards District (CSD) to establish regulations, safeguards, and controls for SPR’s proposed drilling and oil production in addition to other regulations that pertain to California oil production. The geology of the area is such that the formations beneath the Baldwin Hills are not considered suitable for water supply; nonetheless, the Baldwin Hills CSD and the Los Angeles Regional Water Quality Control Board (LARWQCB) requested a groundwater-monitoring network to evaluate potential impacts associated with the Site. Specifically, the LARWQCB requested that the network focus on preferred pathways in native canyon areas and suggested targeting existing catch basins as locations for the monitoring wells to assess the potential for impacts of oil field operations on groundwater quality.

Quarterly monitoring and sampling activities are performed in accordance with the approved *Groundwater Monitoring Program and Workplan, Inglewood Oil Field* (ENTRIX, 2009) and past sampling events beginning in 2010. The monitoring well network, for the CSD-required monitoring, includes wells MW-3, MW-4a, MW-4b, MW-4c, MW- 5, MW-6, and MW-7. The monitoring well locations are presented on Figure 2.

With the exception of groundwater at MW-6 and MW-7, historically during the majority of monitoring events, the wells have been dry and groundwater samples could not be collected. With respect to MW-6 and MW-7, groundwater well data has not identified significant concentrations of constituents of concern (COCs).

GEOLOGY

Numerous studies of the Baldwin Hills have concluded that the tectonic uplift has disconnected the water-bearing sediments in the Baldwin Hills from groundwater-bearing strata in the Los Angeles Basin (California Department of Water Resources [DWR], 1961; LARWQCB, 2001; United States Geological Survey [USGS], 2003; Los Angeles County, 2008). Further, these studies conclude that the folded and faulted formations of the Baldwin Hills have limited groundwater potential and are not appropriate for drinking water supply. The prominent aquifer systems in the subsurface of the Los Angeles Basin are exposed at the surface in the Baldwin Hills, as is the Pico Formation, which is typically considered as the base of the fresh-water supply aquifers (DWR, 1961; USGS, 2003). In groundwater models of fresh-water flow in the Los Angeles Basin aquifer systems (USGS, 2003), the Baldwin Hills are modeled as a “no flow” zone; that is, sediments beneath the Baldwin Hills are disconnected from the regional aquifers and groundwater flow is discontinuous across the Baldwin Hills. The following information summarizes the topographic, geologic, and hydrogeologic data that leads to these findings.

TOPOGRAPHY AND DRAINAGE

The Site is in the Baldwin Hills, which form part of a chain of low hills along the Newport-Inglewood Fault Zone. The Baldwin Hills are the highest hills along this fault zone, reaching a height of 511 feet

(153 meters) above mean sea level. Sediments of the Baldwin Hills have been considerably warped and faulted. The northern flank of the Baldwin Hills has been deeply incised by erosion, whereas the southern flank slopes gently to the Torrance Plain and Rosecrans Hills.

No perennial or intermittent streams, as defined by the U.S. Geological Survey, are present within the oil field boundaries (Los Angeles County, 2008).

The Baldwin Hills area, including the Inglewood Oil Field, lies entirely within the Ballona Creek Watershed, which covers approximately 130 square miles in the coastal plain of the Los Angeles Basin. The watershed is highly developed, with the predominant land uses being residential (59 percent), vacant/open space (17 percent), and commercial (14 percent). Overall, 49 percent of the watershed is covered by roads, rooftops and other impervious surfaces (City of Los Angeles Stormwater Program).

Stormwater runoff occurs primarily as sheet flow across drilling pads, structure pads, and slopes eventually flowing into ephemeral gullies and drainage ditches. Five stormwater catch basins are located along these drainages within the CSD boundary to regulate discharge from the Site and retain oil on the Site in an event of a spill. The catch basins are depicted on Figure 2 and are identified as follows:

- LAI Basin
- Stocker Basin
- Vickers I Basin
- Lower Vickers II Basin
- Upper Vickers II Basin

The operator takes measures to retain as much stormwater runoff on site as possible. On occasions when runoff from these basins does occur, flow is filtered to meet limits as stated in the National Pollutant Discharge Elimination System (NPDES) discharge permit, then discharged to the public storm drain system and ultimately to Ballona Creek. Two of the basins, LAI and Stocker, discharge through the storm drain system into Centinela Creek, which then ultimately discharges to Ballona Creek. Centinela Creek is located approximately 1.2 miles southwest of the active oil field boundary. The other three basins, Lower Vickers II, Upper Vickers II, and Vickers I, discharge to the storm drain system, ultimately reaching Ballona Creek, which is located approximately 0.2 miles west of the active oil field boundary at its closest point.

Stormwater runoff is addressed in a site-specific water quality permit that is monitored and enforced by the LARWQCB to ensure that surface water beneficial uses are not impaired.

SITE HYDROGEOLOGY

The Baldwin Hills are generally comprised of non-water bearing strata that straddle the West Coast, Central, and Santa Monica groundwater basins. Groundwater within the Baldwin Hills, where present, is limited to perched zones located within canyon alluvium and weathered bedrock (DWR 1961; LARWQCB 2001). There are no domestic or industrial water supply wells located within the active oil field boundary, or within one mile of the Baldwin Hills.

The Baldwin Hills are underlain by a faulted, northwest-trending anticline, which is occurring within sediments of Tertiary and Pleistocene age. Two principal northwesterly trending, nearly parallel faults offset the central portion of the hills, developing a down-dropped block or graben across the crest of the anticline. The more easterly of the two structures is the Newport-Inglewood fault; the other fault is

unnamed. Both faults are offset by secondary cross faults that trend northeast. The block east of the Newport-Inglewood fault is composed of Pliocene age and older sediments and is cut by several small unnamed faults (USGS, 1976). One such fault extends along the northeast border of the Baldwin Hills and may be related to the prominent escarpment in that area. The Slauson Avenue fault extends northeast beyond the Baldwin Hills and offsets aquifers of the San Pedro Formation. The Baldwin Hills form a complete barrier to groundwater movement where the essentially non-water-bearing Pico Formation out crops. The Pico Formation is typically taken as the base of the fresh-water zone across the Los Angeles Basin.

Potable groundwater aquifers of the Los Angeles Basin lie adjacent to the Baldwin Hills. Based on a hydrogeologic cross-section completed along Ballona Creek (USGS, 2003), the base of fresh water is highly variable as a result of faulting along the Newport-Inglewood Fault Zone. Along the north-northwest boundary of the Baldwin Hills, west of the Newport-Inglewood Fault Zone, groundwater is present in the Silverado Aquifer to a depth of 200 to 300 feet below ground surface (bgs). Further west from the fault zone, the Silverado Aquifer thickens, and groundwater is present to a depth of approximately 450 feet bgs. Silverado Formation is underlain by the Pico Formation (DWR 1961). The base of fresh water is much deeper to the east of the Newport-Inglewood Fault Zone and the Baldwin Hills, and numerous aquifers are present. Golden State Water Company Sentney Well #8 (State well No. 2S/14W/Sec 5/D08 or County well No. 2626P), located east of the fault zone, along Ballona Creek and approximately 1.2 miles north of the active oil field boundary, produces water from five separate stratigraphic intervals within aquifers at depths ranging from 70 to 370 feet bgs. These depths would include the Exposition, Gage, Lynwood, and Silverado Aquifers. Similar to west of the fault zone, the non-water-bearing Pico Formation lies below the Silverado Aquifer (DWR, 1961).

Within the Site, localized, perched groundwater has been measured at depths ranging from approximately 25 to over 200 feet bgs. Existing information indicates that, the largely non-water-bearing formations under the Site contain thin localized perched groundwater zones that are not continuous across the Baldwin Hills, and are not connected to the regional aquifer systems in the Los Angeles Basin. Because of the limited occurrence of these thin localized perched groundwater zones, the geological formations beneath the Baldwin Hills are not considered suitable for water supply (DWR, 1961; USGS, 2003; County of Los Angeles, 2008).

2 GROUNDWATER FIELD PROGRAM

The monitoring activities were performed in accordance with the *Groundwater Monitoring Program and Workplan* (ENTRIX, 2009). The field activities and sampling methods used during this quarterly groundwater monitoring event are described below.

MONITORING WELL NETWORK

The objective of the groundwater monitoring program is to evaluate and monitor groundwater resources that may be affected by oil field operations. Monitoring wells are located downgradient of the catch basins on the Site. The catch basins and associated monitoring well locations are presented on Figure 2 and as follows:

- LAI Basin (MW-3)
- Stocker Basin (MW-4a, MW-4b, MW-4c)
- Vickers I Basin (MW-5)
- Lower Vickers II Basin (MW-6)
- Upper Vickers II Basin (MW-7)

GROUNDWATER MONITORING AND SAMPLING

The groundwater monitoring activities were conducted in general accordance with the U.S. Environmental Protection Agency's (EPA) Standard Operating Procedures for the Standard/Well-Volume Method for Collecting Ground-Water Samples (EPA, 2002). These activities included the measurement of depth to water and the collection of groundwater samples for chemical analysis, if sufficient groundwater is present.

WATER LEVEL MONITORING

Prior to purging and sampling, an electronic water level meter was used to measure depth to water and the total depth of each well. Measurements of the depth to water were taken from a surveyed reference point at the top of each well casing. Water level measurements were recorded to the nearest 0.01 foot and recorded on field data sheets, provided in Appendix A. The monitoring equipment lowered into the well casing was thoroughly washed with tap water containing decontaminating detergent (Liquinox) and double rinsed with purified deionized water prior to and after use.

On March 17, 2021, at the time of water level monitoring, it was observed that wells MW-3, MW-4a, MW-4b, MW-4c, and MW-5 were dry. Therefore, groundwater samples could not be collected from these wells.

As mentioned in the SCS January 2021 monitoring report, well MW-7 well box and top of casing were damaged by heavy equipment. Since there was a potential for sediment to have entered the well casing, SPR contracted with Cascade Drilling to redevelop well MW-7 on March 12, 2021. Additionally, Cascade Drilling also trimmed the top of the PVC well casing in order to install a flush mounted well box in preparation for future concrete paving at that location. Re-surveying of the top of PVC pipe is anticipated to be conducted in the near future.

WELL PURGING

On March 17, 2021, wells MW-6 and MW-7 contained sufficient water for purging and sample collection.

To reduce agitation of formation water in the well casing, the monitoring well was purged and sampled using a low flow method, which included using a clean portable QED bladder pump and dedicated hose.

During purging, field parameters were routinely monitored using a Horiba U52 multi-parameter water quality meter to measure pH, specific conductivity (also referred to as electrical conductivity or EC), temperature and turbidity to ensure stabilization of aquifer conditions. Stability is typically considered to be achieved when the following conditions are met prior to filling sample containers:

- At least one volume of water equivalent to the volume of the portable pump and hose system was removed.
- Last two readings of field pH are within 0.1 pH units.
- Last two readings of field EC are within 3 percent.
- Last two readings of field turbidity are below 10 nephelometric turbidity units (NTU) or within 10 percent of each other.

As shown on field sampling records (Appendix A) from March 2021, these water quality stabilization conditions were met prior to sample collection for laboratory analysis. Therefore, the first quarter 2021 samples are considered representative of water quality in the vicinity of wells MW-6 and MW-7.

GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

During sampling activities, a new pair of nitrile powder-free gloves was worn for sample collection at each well. Immediately following purging, groundwater samples were collected directly into laboratory supplied sample containers through the discharge hose of the portable QED bladder pump hose system. Where appropriate, the groundwater samples were chemically preserved through use of preservative-containing laboratory supplied bottles or vials. Samples collected for volatile organic compounds (VOC) analyses were handled with extra care to minimize any turbulence or aeration when filling the vials. The vials and caps were filled to form a convex meniscus and after tightening of the cap, the sample vial was inverted to check for the presence of air bubbles in the sample container. If an air bubble was present, the sample vial was opened, and the procedure repeated, or a new set of vials were filled.

The sample from MW-6 for dissolved metals was filtered in the field. Upon receipt at the project laboratory, because of obvious suspended sediment in MW-7 water, unpreserved sample was filtered and then preserved for dissolved metals analysis.

Sample containers were labeled with the sampler's initials, location ID, date, time, analyses to be performed, and the preservation method used. Samples were placed in individual Ziploc®-type bags, sealed, and stored in coolers on ice prior to and during transfer to the analytical laboratory. Ice was sealed in plastic bags. Chain-of-custody documentation was completed onsite and accompanied the samples to the laboratory. The samples were transferred to the laboratory by courier within 24 hours of sampling.

BC Laboratories Inc. (BC), a state-certified laboratory (CA ELAP #1186) located in Bakersfield, California, conducted the sample analyses. Chain-of-custody tracking procedures were maintained from sample collection through processing and analysis at the laboratory.

Samples were analyzed for pH, biochemical oxygen demand (BOD), nitrate, nitrite, total dissolved solids (TDS), total petroleum hydrocarbons - diesel range organics (TPH-DRO), oil and grease (formerly referred to as total recoverable petroleum hydrocarbons [TRPH]), VOCs (specifically benzene, toluene, ethylbenzene, xylenes [BTEX], and methyl tert-butyl ether [MTBE]), and dissolved metals (arsenic, barium, cobalt, chromium, copper, lead, and zinc) using various EPA Methods as listed in Table 1.

With respect to DRO analysis, groundwater samples were analyzed with and without the silica gel filtering method (by the laboratory). Silica gel filtering removes hydrocarbons with a non-petroleum origin, such as natural alcohols and other short chain organic molecules.

With respect to arsenic analyses, beginning in the third quarter of 2019, to show that Method 6010B satisfactorily detects arsenic concentrations at levels near its California Primary Maximum Contaminant Level (MCL) of 10 micrograms per liter ($\mu\text{g/L}$), arsenic has been analyzed by both original Method 6010B and supplementary Method 6020 (with a lower reporting limit and less susceptibility to matrix interference).

Note that for the purposes of this report the term “reporting limit” is equivalent to BC Laboratory’s term Practical Quantitation Limit (PQL) and are considered interchangeable. Estimated

concentrations below the reporting limit and above the method detection limit are flagged in the report text and data summary tables with a “J”.

3 GROUNDWATER RESULTS

Groundwater sampling was conducted on March 17, 2021 at wells MW-6 and MW-7. Monitoring wells MW-3, MW-4a, MW-4b, MW-4c, and MW-5 were dry at the time of monitoring and could not be sampled.

GROUNDWATER ELEVATIONS

The groundwater elevation data are presented in Table 2. Dry conditions in the well casings of MW-3, MW-4a, MW-4b, MW-4c, and MW-5 are consistent with results of the prior groundwater sampling events as well as other studies of the Site, which determined that the water-bearing zones in the Baldwin Hills are discontinuous. Monitoring well locations and first quarter 2021 groundwater elevations are shown on Figure 2.

GROUNDWATER FIELD AND ANALYTICAL RESULTS

Table 3 provides a summary of the final field monitoring parameters (as discussed above) for the current and eleven previous monitoring events. Field sampling record forms are included in Appendix A.

Tables 4 and 5 include a summary of laboratory results for the current (March 17, 2021) and historic (post November 2017) monitoring events for wells MW-6 and MW-7. The laboratory report dated April 1, 2021 and chain-of-custody documentation are included in Appendix B.

A summary of the laboratory results for historical monitoring events, from April 2010 to March 2021, for wells MW-3, MW-4a, MW-4b, MW-4c, MW-5, MW-6, and MW-7 is provided in Appendix C. Appendix C also includes time series graphs for TPH (Silica Gel Filtering) data from April 2010 to the current event.

The first quarter 2021 analytical data for wells MW-6 and MW-7 are summarized below:

MW-6: As shown in Table 4, BTEX/MTBE, oil and grease, and TPH-DRO (with and without silica gel filtering) were not detected.

As shown in Table 5, nitrate, nitrite, chromium, cobalt, and copper were not detected. Arsenic was not detected by EPA Method 6010B; however, was detected at 3.2 µg/L by EPA Method 6020 (reporting limit of 2.0 µg/L and a method detection limit of 0.38 µg/L). Barium was detected at 26 µg/L. Lead was detected at an estimated concentration of 5.9 J µg/L (which is below the reporting limit) and zinc was detected at 14 µg/L. BOD was measured at 4.5 milligrams per liter (mg/L), TDS at 1,300 mg/L, and pH at 7.47.

MW-7: As shown in Table 4, BTEX/MTBE, oil and grease, and TPH-DRO (with and without silica gel filtering) were not detected.

As shown in Table 5, nitrite and cobalt were not detected. Nitrate was detected at 5.4 mg/L. Arsenic was not detected by EPA Method 6010B; however, was detected at 3.6 µg/L by EPA Method 6020. Barium and zinc were detected at 87

µg/L and 20 µg/L, respectively. Chromium, copper, and lead had estimated concentrations of 2.1 J µg/L, 3.8 J µg/L, and 10 J µg/L, respectively (which are below the reporting limits). BOD was detected at 1.5 mg/L, TDS at 1,400 mg/L, and pH at 6.94.

These first quarter 2021 groundwater monitoring results are similar to results from historic monitoring events. As shown in Tables 4 and 5, these results are below any applicable California Primary MCLs or Actions Levels.

For the arsenic results, differences in reported concentrations between Methods 6010B and 6020 are not unusual. Method 6020 is less susceptible to matrix interferences (i.e. interferences from other substances in the water sample) than Method 6010B, therefore the concentrations of dissolved arsenic of 3.2 µg/L in well MW-6 and 3.6 µg/L in well MW-7 are valid.

4 CONCLUSIONS

The results of the first quarter 2021 monitoring event are consistent with past monitoring events, with no significant change in conditions or the water chemistry in the wells sampled during this event.

Groundwater wells have been sampled for over 11 years and groundwater well data show no significant concentrations of COCs.

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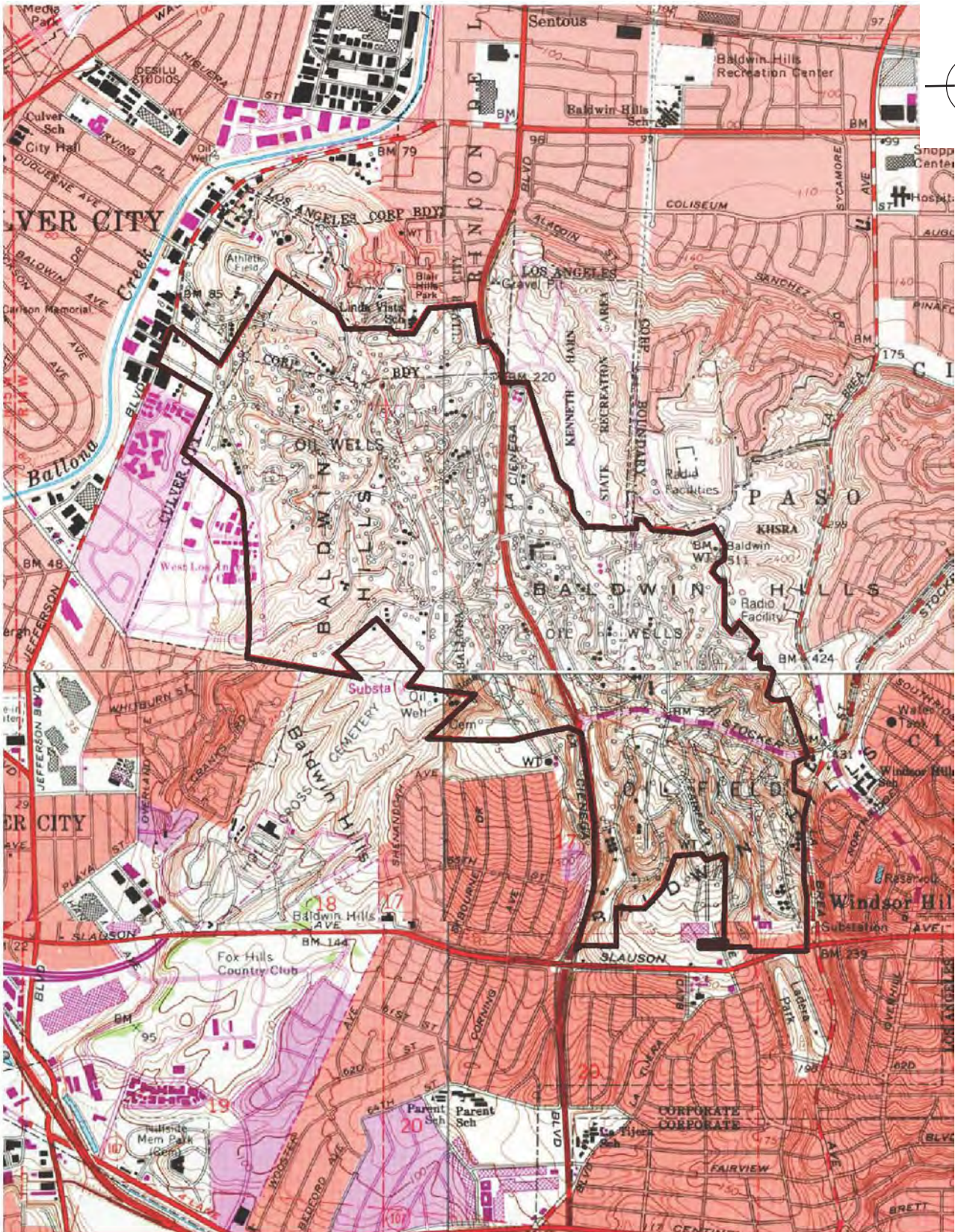
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Figures



Note: United States Geological Survey (USGS) Inglewood (1981), Hollywood (1981), Beverly Hills (1981) and Venice (1981) 7.5 Minute Topographic Maps.

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APP. BY: K. GREEN

CLIENT:

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5640 South Fairfax Avenue
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SHEET TITLE:

SITE LOCATION MAP

PROJECT TITLE:

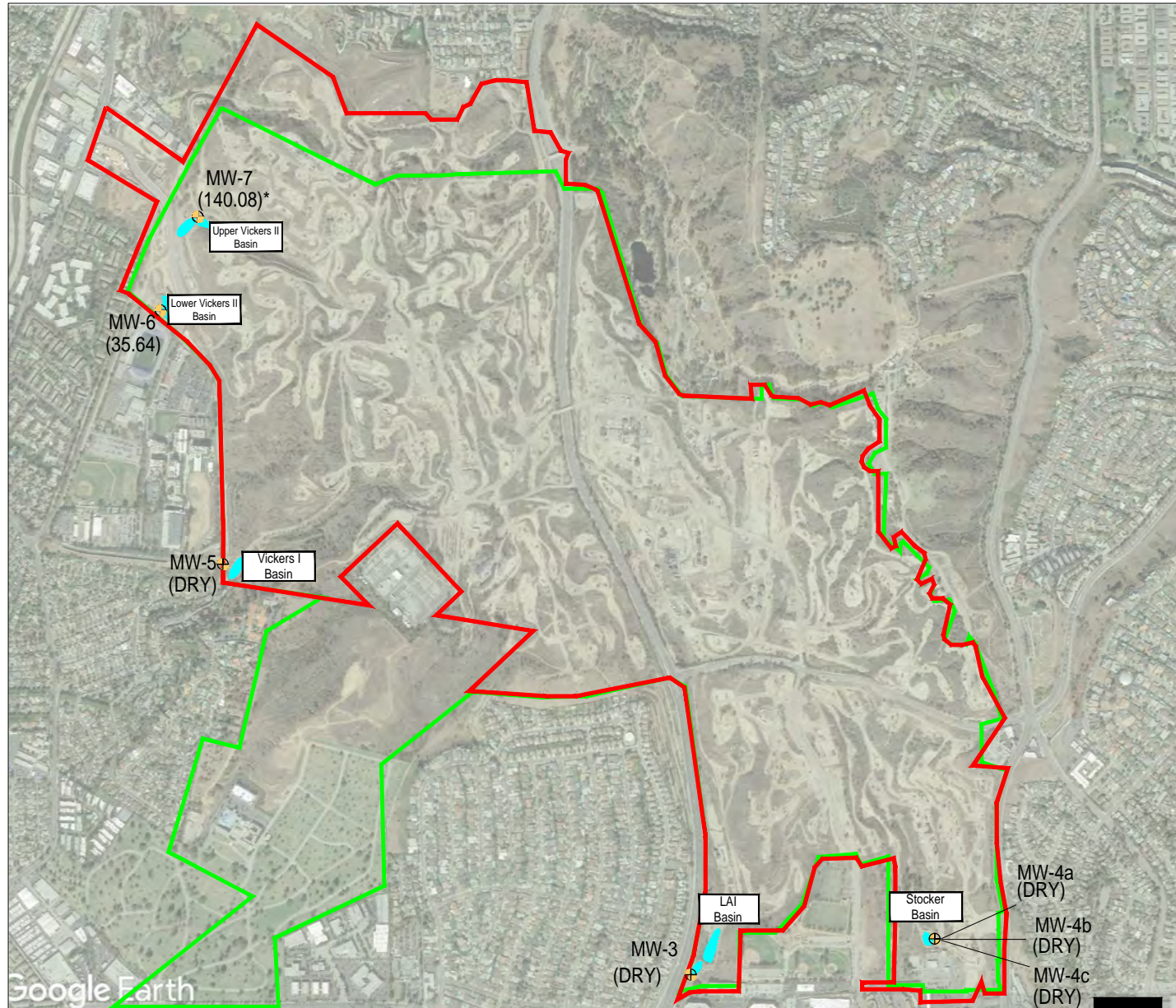
INGLEWOOD
OIL FIELD

SCALE:

NOT TO SCALE

FIGURE NO.:

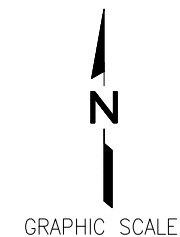
FIGURE 1



Note: Base map from Google Earth

LEGEND

- Groundwater Monitoring Well
- Active Field Boundary
- CSD Boundary
- Retention Basin
- (110.13) Groundwater Elevation (feet above mean sea level) from March 17, 2021
- * Estimated groundwater elevation



0 1,600 3,200
SCALE IN FEET

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SHEET TITLE:

Monitoring Well Locations and
Groundwater Elevations
(MARCH 2021)

DATE:
April 2021

SCALE:
1" = 1,600'

PROJECT TITLE:

Inglewood Oil Field

FIGURE NO.

2

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Tables

TABLE 1
Monitoring Parameters
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Parameter	Analytical Method
pH	SM-4500HB
Biochemical Oxygen Demand - Seeded	SM17-5210B
Nitrate as Nitrogen (N)	EPA-300.0
Nitrite as Nitrogen (N)	EPA-353.2
Total Dissolved Solids	SM-2540C
Diesel Range Organics (C ₁₂ -C ₂₄)	EPA-8015B
Diesel Range Organics (C ₁₂ -C ₂₄) (Silica Gel Treated)	Luft/TPHd
Oil and Grease *	EPA-1664A HEM
Volatile Organic Compounds **	EPA-8260B
Dissolved Metals (As, Ba, Co, Cr, Cu, Pb, Zn)	EPA-6010B
Dissolved Metal (As)	EPA-6020
Field pH	Calibrated Field Instrument
Field Specific Conductivity	
Field Turbidity	
Field Temperature	

Notes

SM = Standard Method

EPA = Environmental Protection Agency

* = Formerly used Method 418.1 for Total Recoverable Petroleum Hydrocarbons is no longer offered by most analytical laboratories in California.

** = Benzene, Toluene, Ethylbenzene, Xylenes, and Methyl tert-butyl ether only.

As = Arsenic, Ba = Barium, Co = Cobalt, Cr = Chromium, Cu = Copper, Pb = Lead, Zn = Zinc.

Methods reflect March 2021 sampling event. For methods used in earlier periods, please see applicable monitoring or laboratory reports.

TABLE 2
Groundwater Elevation Data
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Well ID	Date	Well Pipe Diameter	Wellhead Elevation	Total Depth	Depth-to-Water	Groundwater Elevation
		inches	feet msl	feet btoc	feet btoc	feet msl
MW-3	11/20/2017	2	197.51	75.0	Dry	--
	2/6/2018				Dry	--
	5/15/2018				73.87	123.64
	7/25/2018				Dry	--
	12/10/2018				Dry	--
	2/19/2019				Dry	--
	5/22/2019				64.49	133.02
	8/28/2019				74.90	122.61
	11/13/2019				Dry	--
	2/5/2020				Dry	--
	5/5/2020				Dry	--
	8/25/2020				Dry	--
	11/17/2020				Dry	--
	3/17/2021				Dry	--
MW-4a	11/20/2017	2	230.28	120.2	Dry	--
	2/6/2018				120.15	110.13
	5/15/2018				119.97	110.31
	7/25/2018				119.99	110.29
	12/10/2018				Dry	--
	2/19/2019				Dry	--
	5/22/2019				Dry	--
	8/28/2019				Dry	--
	11/13/2019				Dry	--
	2/5/2020				Dry	--
	5/5/2020				Dry	--
	8/25/2020				Dry	--
	11/17/2020				Dry	--
	3/17/2021				Dry	--
MW-4b	11/20/2017	2	230.30	166.7	Dry	--
	2/6/2018				166.50	63.80
	5/15/2018				166.55	63.75
	7/25/2018				166.57	63.73
	12/10/2018				Dry	--
	2/19/2019				Dry	--
	5/22/2019				Dry	--
	8/28/2019				Dry	--
	11/13/2019				Dry	--
	2/5/2020				Dry	--
	5/5/2020				Dry	--
	8/25/2020				Dry	--
	11/17/2020				Dry	--
	3/17/2021				Dry	--
MW-4c	11/20/2017	2	230.63	140.0	Dry	--
	2/6/2018				139.73	90.90
	5/15/2018				139.75	90.88
	7/25/2018				139.76	90.87
	12/10/2018				Dry	--
	2/19/2019				Dry	--
	5/22/2019				Dry	--
	8/28/2019				139.72	90.91
	11/13/2019				Dry	--
	2/5/2020				Dry	--
	5/5/2020				Dry	--
	8/25/2020				Dry	--
	11/17/2020				Dry	--
	3/17/2021				Dry	--
MW-5	11/20/2017	2	172.82	144.3	Dry	--
	2/6/2018				Dry	--
	5/15/2018				Dry	--
	7/25/2018				Dry	--
	12/10/2018				Dry	--
	2/19/2019				Dry	--
	5/22/2019				Dry	--
	8/28/2019				Dry	--
	11/13/2019				Dry	--
	2/5/2020				Dry	--
	5/5/2020				Dry	--
	8/25/2020				Dry	--
	11/17/2020				Dry	--
	3/17/2021				Dry	--
MW-6	11/20/2017	2	97.62	72.2	62.71	34.91
	2/6/2018				63.61	34.01
	5/15/2018				63.71	33.91
	7/25/2018				63.96	33.66
	12/10/2018				64.76	32.86
	2/19/2019				64.87	32.75
	5/22/2019				61.87	35.75
	8/28/2019				62.11	35.51
	11/13/2019				62.47	35.15
	2/5/2020				61.22	36.40
	5/5/2020				60.99	36.63
	8/25/2020				61.36	36.26
	11/17/2020				61.88	35.74
	3/17/2021				61.98	35.64

TABLE 2
Groundwater Elevation Data
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Well ID	Date	Well Pipe Diameter	Wellhead Elevation	Total Depth	Depth-to-Water	Groundwater Elevation
		inches	feet msl	feet btoc	feet btoc	feet msl
MW-7	11/20/2017	2	186.18	58.1	46.20	139.98
	2/6/2018				44.28	141.90
	5/15/2018				45.55	140.63
	7/25/2018				46.87	139.31
	12/10/2018				40.73	145.45
	2/19/2019				39.41	146.77
	5/22/2019				44.70	141.48
	8/28/2019				45.91	140.27
	11/13/2019				46.27	139.91
	2/5/2020				42.58	143.60
	5/5/2020				43.70	142.48
	8/25/2020				46.12	140.06
	12/29/2020 *			Est 54.2	46.97	139.21
	3/17/2021 *			56.4	46.10	140.08

NOTES:

btoc = below top of casing

msl = mean sea level

NM = not measured

-- = not applicable

* Groundwater elevation is estimated. For 12-29-2020, total depth was measured at 54.20 feet below top of casing. The change in total depth is due to the top of the PVC pipe being buried by heavy equipment which likely caused sediment to enter the PVC pipe opening and to deform the upper portions of the pipe. To allow lowering of sample equipment, some PVC pipe was cut off the top of the well. On March 12, 2021 Cascade under SPR oversight redeveloped MW7 and cut about 1 foot PVC to add flush mounted well box (because area will be paved in near future). After redevelopment, Cascade and later SCS measured a total depth below top of PVC casing of 56.40 feet. A new reference point elevation will be resurveyed in near future.

TABLE 3
Stabilized Groundwater Field Sampling Parameters
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Monitoring Well	Sampling Date	Temperature	pH	Electrical Conductivity	Turbidity	Comments
		"F	pH units	µS/cm	NTUs	
MW-3	11/20/2017	----	----	----	----	Dry
	2/6/2018	----	----	----	----	Dry
	5/15/2018	----	----	----	----	Not enough water to sample
	7/25/2018	----	----	----	----	Dry
	12/10/2018	----	----	----	----	Dry
	2/19/2019	----	----	----	----	Dry
	5/22/2019	73.7	7.41	438	15.0	Not enough water to sample
	8/28/2019	----	----	----	----	Not enough water to sample
	11/13/2019	----	----	----	----	Dry
	2/5/2020	----	----	----	----	Dry
	5/5/2020	----	----	----	----	Dry
	8/25/2020	----	----	----	----	Dry
	11/17/2020	----	----	----	----	Dry
	3/17/2021	----	----	----	----	Dry
MW-4a	11/20/2017	----	----	----	----	Dry
	2/6/2018	----	----	----	----	Not enough water to sample
	5/15/2018	----	----	----	----	Not enough water to sample
	7/25/2018	----	----	----	----	Not enough water to sample
	12/10/2018	----	----	----	----	Dry
	2/19/2019	----	----	----	----	Dry
	5/22/2019	----	----	----	----	Dry
	8/28/2019	----	----	----	----	Dry
	11/13/2019	----	----	----	----	Dry
	2/5/2020	----	----	----	----	Dry
	5/5/2020	----	----	----	----	Dry
	8/25/2020	----	----	----	----	Dry
	11/17/2020	----	----	----	----	Dry
	3/17/2021	----	----	----	----	Dry
MW-4b	11/20/2017	----	----	----	----	Dry
	2/6/2018	----	----	----	----	Not enough water to sample
	5/15/2018	----	----	----	----	Not enough water to sample
	7/25/2018	----	----	----	----	Not enough water to sample
	12/10/2018	----	----	----	----	Dry
	2/19/2019	----	----	----	----	Dry
	5/22/2019	----	----	----	----	Dry
	8/28/2019	----	----	----	----	Dry
	11/13/2019	----	----	----	----	Dry
	2/5/2020	----	----	----	----	Dry
	5/5/2020	----	----	----	----	Dry
	8/25/2020	----	----	----	----	Dry
	11/17/2020	----	----	----	----	Dry
	3/17/2021	----	----	----	----	Dry
MW-4c	11/20/2017	----	----	----	----	Dry
	2/6/2018	----	----	----	----	Not enough water to sample
	5/15/2018	----	----	----	----	Not enough water to sample
	7/25/2018	----	----	----	----	Not enough water to sample
	12/10/2018	----	----	----	----	Dry
	2/19/2019	----	----	----	----	Dry
	5/22/2019	----	----	----	----	Dry
	8/28/2019	----	----	----	----	Not enough water to sample
	11/13/2019	----	----	----	----	Dry
	2/5/2020	----	----	----	----	Dry
	5/5/2020	----	----	----	----	Dry
	8/25/2020	----	----	----	----	Dry
	11/17/2020	----	----	----	----	Dry
	3/17/2021	----	----	----	----	Dry
MW-5	11/20/2017	----	----	----	----	Dry
	2/6/2018	----	----	----	----	Dry
	5/15/2018	----	----	----	----	Dry
	7/25/2018	----	----	----	----	Dry
	12/10/2018	----	----	----	----	Dry
	2/19/2019	----	----	----	----	Dry
	5/22/2019	----	----	----	----	Dry
	8/28/2019	----	----	----	----	Dry
	11/13/2019	----	----	----	----	Dry
	2/5/2020	----	----	----	----	Dry
	5/5/2020	----	----	----	----	Dry
	8/25/2020	----	----	----	----	Dry
	11/17/2020	----	----	----	----	Dry
	3/17/2021	----	----	----	----	Dry
MW-6	11/20/2017	76.2	6.87	3,005	25	
	2/6/2018	73.9	9.40	489	24.01	
	5/15/2018	77.4	6.66	3,400	24	
	7/25/2018	78.7	7.19	2,910	15.3	
	12/12/2018	72.2	6.77	3,273	14	
	2/19/2019	75.0	7.61	3,370	14.4	
	5/22/2019	72.3	6.48	3,170	8.8	
	8/28/2019	78.46	7.14	2,710	5.2	
	11/13/2019	74.91	6.74	2,810	15.3	
	2/5/2020	73.99	7.15	2,610	6.8	
	5/5/2020	72.01	7.18	2,760	6.31	
	8/25/2020	72.66	7.26	2,680	9.43	
	11/17/2020	76.51	6.38	1,890	71	
	3/17/2021	69.08	6.39	1,840	68	
MW-7	11/20/2017	73.6	7.16	2,780	18	
	2/6/2018	82.6	8.25	57	12.6	
	5/15/2018	78.2	6.97	2,750	93	
	7/25/2018	78.8	7.20	1,650	13.4	
	12/12/2018	70.5	6.19	437	7	
	2/19/2019	74.0	7.49	326	8	
	5/22/2019	70.9	6.22	554	23.8	
	8/28/2019	74.91	7.08	982	6.8	
	11/13/2019	70.43	6.21	4,400	7.2	
	2/5/2020	69.85	6.63	701	8.3	
	5/5/2020	72.84	6.08	712	8.7	
	8/25/2020	72.03	6.73	811	9.3	
	11/17/2020	66.00	6.78	3,170	23	
	3/17/2021	64.40	6.96	2,780	89	

NOTES:

*F = Fahrenheit (Field Temperature recorded in Celsius and converted to Fahrenheit)

µS/cm = Microsiemens per centimeter

NTU = Nephelometric Turbidity Unit

TABLE 4
Groundwater Analytical Results
TPH, VOCs, and TRPH
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Sample Location*	Date Collected	TPH-DRO (w/out Silica Gel Filtering)	TPH-DRO (w/Silica Gel Filtering)	VOCs					TRPH / Oil & Grease
		C ₁₂ -C ₂₄	C ₁₂ -C ₂₄	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	
		mg/L	mg/L						
MW-6	11/20/2017	0.27	<0.10	<0.5	<0.5	<0.5	<1.0	<2.0	<5.0
	2/6/2018	0.11 J	0.10 J	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/15/2018	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	7/25/2018	0.24	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	12/12/2018	0.15 J	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	0.89 J
	2/19/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/22/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	8/28/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	11/13/2019	0.13 J	0.22	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	2/5/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/5/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	8/25/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	11/17/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	3/17/2021	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
MW-7	11/20/2017	0.12	<0.10	<0.5	<0.5	<0.5	<1.0	<2.0	<5.0
	2/6/2018	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/16/2018	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	7/25/2018	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	12/12/2018	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<6.1
	2/19/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/22/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	8/28/2019	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	11/15/2019	0.11 J	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	2/5/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	5/5/2020	0.13 J	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	1.1 J
	8/25/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	12/29/2020	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
	3/17/2021	<0.20	<0.20	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
Primary MCL		--	--	1.0	150	300	1,750	13	--

Notes:

<# = Not detected. The parameter was not detected above the indicated reporting limit.

J = Estimated concentration above the method detection limit but below the reporting limit.

µg/L = micrograms per liter.

mg/L = milligrams per liter.

*MW-3, MW-4A, MW-4B, MW-4C, and MW-5 were dry or contained insufficient water for purging or filling of sample containers.

TPH-DRO = Diesel Range Organics

VOCs = Volatile Organic Compounds

MTBE = Methyl tert-butyl ether

TRPH = Total Recoverable Petroleum Hydrocarbons or Total Oil and Grease

Primary MCL = Maximum Contaminant Level, the highest level of a substance that is allowed in California drinking water for health risk reasons.

-- = Not applicable/available

TABLE 5
Groundwater Analytical Results
Metals, Nitrate, Nitrite, BOD, TDS, and pH
Sentinel Peak Resources - Inglewood Oil Field
Los Angeles, California

Sample Location*	Date Collected	Nitrate as N	Nitrite as N	Metals, Dissolved ^							BOD	Total Dissolved Solids (TDS)	pH
				Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Zinc			
		mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	pH units
MW-6	11/20/2017	<0.10	<0.30	<7.0	<100	<10	<50	72	<10	<50	14	1,300	6.8
	2/6/2018	<0.20	<0.05	<50**	160	42	8.6 J	30	9.5 J	76	13	1,900	7.45
	5/15/2018	0.068 J	<0.05	<50**	52	<10	<50	<10	<50***	<10	1.8	1,900	7.53
	7/25/2018	<0.20	0.015 JB	<50**	31	<10	<50	5.6 J	<50***	5.9 J	2.0	1,600	7.55
	12/12/2018	<0.20	<0.050	<50**	52	<10	<50	<10	<50***	<10	<2.0	1,700	7.55
	2/19/2019	<0.20	<0.050	<50**	46	<10	<50	<10	<50***	38	2.0	1,900	7.34
	5/22/2019	<0.20	<0.050	<50**	53	<10	<50	<10	<50***	<10	<1.5	1,800	7.54
	8/28/2019	<0.20	<0.050	<50**/4.1	35	<10	<50	<10	<50***	25	<1.5	1,500	7.74
	11/13/2019	<0.50	<0.050	17 J/5.0	48	<10	<50	3.1 J	<50***	<10	2.8	1,700	7.65
	2/5/2020	<0.20	<0.050	13 J/3.3	52	<10	<50	2.1 J	8.8 J	6.3 J	<1.5	1,800	7.14
	5/5/2020	<0.10	<0.050	<50**/4.2	37	1.2 J	<50	5.5 J	<50***	20	4.1	1,300	7.63
	8/25/2020	<0.20	<0.050	<50**/4.8	21	<10	<50	1.8 J	9.4 J	<10	3.9	950	7.74
	11/17/2020	<0.20	<0.050	<50**/4.2	24	<10	<50	2.2 J	<50***	<10	1.8	1,000	7.61
	3/17/2021	<0.20	<0.050	<50**/3.2	26	<10	<50	<10	5.9 J	14	4.5	1,300	7.47
MW-7	11/20/2017	5.0	<0.30	<7.0	<100	<10	<50	78	<10	<50	<5.0	1,400	6.4
	2/6/2018	4.3	<0.05	<50**	98	38	11 J	15	6.1 J	54	<1.5	330	6.66
	5/16/2018	5.8	0.023 J	<50**	36	<10	1.7 J	<10	<50***	<10	<1.5	1,600	7.35
	7/25/2018	6.1	0.028 JB	14 J	36	2.1 JB	2.0 J	2.3 J	<50***	<10	<1.5	1,600	7.41
	12/12/2018	3.1	<0.050	<50**	7.7 J	2.7 J	<50	<10	<50***	<10	<1.5	290	6.78
	2/19/2019	1.0	<0.050	<50**	9.7 J	1.2 J	<50	2.2 J	<50***	43	3.5	210	6.83
	5/22/2019	1.1	0.015 J	<50**	9.6 J	<10	<50	2.9 J	<50***	<10	<1.5	330	7.15
	8/28/2019	2.7	<0.050	<50**/3.0	9.9 J	<10	<50	1.6 JB	<50***	24	2.0	580	7.62
	11/15/2019	4.1	0.016 J	<50**/6.4	30	<10	<50	4.9 J	5.9 J	<10	<1.5	1,600	7.04
	2/5/2020	0.59	<0.050	<50**/1.3 J	16	<10	<50	2.7 J	3.9 J	6.2 J	<1.5	520	6.82
	5/5/2020	1.6	<0.050	<50**/1.4 J	17	<10	<50	2.4 J	<50***	7.2 J	3.6	530	6.92
	8/25/2020	3.6	<0.050	<50**/4.1	20	<10	<50	3.9 J	17 J	7.4 J	<1.5	920	7.33
	12/29/2020	2.4	0.032 J	21 J/8.3	74	<10	<50	3.4 J	10 J	<10	2.3	1,800	7.17
	3/17/2021	5.4	<0.050	<50**/3.6	87	2.1 J	<50	3.8 J	10 J	20	1.5	1,400	6.94
Primary MCL/Action Level #		10	1	10	1,000	50	--	1,300 #	15 #	--	--	--	--

Notes:

<# = Not detected. Parameter was not detected above the indicated reporting limit.

J = Estimated concentration above the method detection limit but below the reporting limit.

B = Parameter also detected in the associated method blank.

µg/L = micrograms per liter

mg/L = milligrams per liter

*MW-3, MW-4A, MW-4B, MW-4C, and MW-5 were dry or contained insufficient water for purging or sampling.

** Arsenic reporting limit by Method 6010B is 50 µg/L and method detection limit is 7.8 µg/L (2-2018) and 9.2 µg/L (5-2018, 7-2018, 12-2018, 2-2019, 5-2019, 8-2019, 11-2019, 2-2020, 5-2020, 8-2020, 11-2020, 12-2020, 3-2021). For 8-2019, 11-2019, 2-2020, 5-2020, 8-2020, 11-2020, 12-2020, and 3-2021 arsenic was also analyzed by Method 6020 with a reporting limit of 2.0 µg/L and method detection limit is 0.38 µg/L.

*** Lead reporting limit is 50 µg/L and method detection limit is 3.5 µg/L.


Primary MCL = Primary Maximum Contaminant Level. The highest level of a contaminant that is allowed in California drinking water for health risk purposes.

Action Level = are for lead and copper. Established by California to monitor concentrations in water treatment plants discharge and their potential contribution from steel water transmission pipes/solder joints to tap water. Copper also has a secondary MCL of 1,000 µg/L, which is not risk based but established for purposes of taste, color, odor, and/or staining of drinking water.

BOD = Biochemical Oxygen Demand

-- = Not applicable/available

^ = Metals are filtered in the field. Note-February 6, 2018 samples were not filtered and therefore results are total metal concentrations (not dissolved).



Appendix A

Groundwater Monitoring Sampling Records

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-3 Project # 01218001-06 T3
Facility Name: Inglewood Oil Field Date: 03/17/21
Well Depth: 15.0 Well Diameter: 2" Casing Material: PVC
Depth to Water: Dry Free Product (Y/N): No
Volume Of Water per Well Volume: _____
Sampler Name(s): Anthony Burrenes
Sampling Equipment: NA Tubing Material: Poly Teflon Pump set at _____ ft.
Weather Conditions: Sunny & Clear
NOTES: This well is Dry

TIME

Volume Purged

Water Level (only if measured during purge)

Purge Rate

Temp. (°C)

DO (mg/l)

EC (mS/cm)

PH

ORP (mV)

Turbidity (NTU)

CO2

Water Color /Tint: NA Cloudy (Y/N): NA

Any Suspended Sediment: NA

Field Parameters measured with: NA

Sampled Time: NA Sample collection method: NA

Number of Bottles: NA

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-4A

Project # 01218001-00 T3

Facility Name: Inglewood Oil Field

Date: 03/17/21

Well Depth: 120.1

Well Diameter: 2"

Casing Material: PVC

Depth to Water: Day

Free Product (Y/N): NO

Volume Of Water per Well Volume: _____

Sampler Name(s): Anthony Pinares

Sampling Equipment: NA

Tubing Material: Poly Teflon Pump set at NA ft.

Weather Conditions: Sunny & Clear

NOTES: This well is dry

TIME

Volume Purged

Water Level (only if measured during purge)

Purge Rate

Temp. (°C)

DO (mg/l)

EC (mS/cm)

PH

ORP (mV)

Turbidity (NTU)

CO2

Water Color /Tint: NA

Cloudy (Y/N): NA

Any Suspended Sediment: NA

Field Parameters measured with: NA

Sampled Time: NA

Sample collection method: NA

Number of Bottles: NA

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-4B

Project # 01215001.00-T3

Facility Name: Englewood Oil Field

Date: 03/17/21

Well Depth: 166.7

Well Diameter: 2"

Casing Material: PVC

Depth to Water: Dry

Free Product (Y/N): NO

Volume Of Water per Well Volume: _____

Sampler Name(s): Anthony Broussard

Sampling Equipment: NA

Tubing Material: NA

Pump set at NA ft.

Weather Conditions: Sunny & Clear

NOTES: This well is Dry

TIME

Volume Purged

Water Level (only if measured during purge)

Purge Rate

Temp. (°C)

DO (mg/l)

EC (mS/cm)

PH

ORP (mV)

Turbidity (NTU)

CO2

Water Color /Tint: NA

Cloudy (Y/N): NA

Any Suspended Sediment: NA

Field Parameters measured with: NA

Sampled Time: NA

Sample collection method: NA

Number of Bottles: NA

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-4C

Project # 01218001.00 T3

Facility Name: Inglewood Oil Field

Date: 03/17/11

Well Depth: 140.0

Well Diameter: 2"

Casing Material: PVC

Depth to Water: Day

Free Product (Y/N): NO

Volume Of Water per Well Volume: _____

Sampler Name(s): Anthony Buncum

Sampling Equipment: NA

Tubing Material: NA

Pump set at NA ft.

Weather Conditions: Sunny & Clear

NOTES: This well is dry

TIME

Volume Purged

Water Level (only if measured during purge)

Purge Rate

Temp. (°C)

DO (mg/l)

EC (mS/cm)

PH

ORP (mV)

Turbidity (NTU)

CO2

Water Color /Tint: NA

Cloudy (Y/N): NA

Any Suspended Sediment: NA

Field Parameters measured with: NA

Sampled Time: NA

Sample collection method: NA

Number of Bottles: NA

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-5 Project # 01218001-00 T3
Facility Name: Inghamwood Oil Field Date: 03/17/21
Well Depth: 144.3 Well Diameter: 2" Casing Material: PVC
Depth to Water: Dry Free Product (Y/N): NO
Volume Of Water per Well Volume: _____
Sampler Name(s): Anthony Burrows
Sampling Equipment: NA Tubing Material: NA Pump set at NA ft.
Weather Conditions: Sunny & Clear
NOTES: This well is Dry

TIME

Volume Purged

Water Level (only if measured during purge)

Purge Rate

Temp. (°C)

DO (mg/l)

EC (mS/cm)

PH

ORP (mV)

Turbidity (NTU)

CO2

Water Color /Tint: NA

Cloudy (Y/N): NA

Any Suspended Sediment: NA

Field Parameters measured with: NA

Sampled Time: NA Sample collection method: NA

Number of Bottles: NA

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-6

Project # 01218001.00 TS

Facility Name: Inglenood Oil Field

Date: 03/17/21

Well Depth: 72.2

Well Diameter: 2"

Casing Material: PVC

Depth to Water: 61.98

Free Product (Y/N): NO

Volume Of Water per Well Volume: _____

Sampler Name(s): Anthony Barajas

Sample Pro

Sampling Equipment: MP-10

Tubing Material: Poly Teflon Pump set at 65.00 ft.

Weather Conditions: Sunny & Clear

NOTES: QCEB collected @ 1047

Water is clear and Odorless @ time of Sampling

TIME	<u>1015</u>	<u>1019</u>	<u>1023</u>	<u>1027</u>	<u>1031</u>
Volume Purged	<u>500 mL</u>	<u>1000 mL</u>	<u>1750 mL</u>	<u>2500 mL</u>	<u>3550 mL</u>
Water Level (only if measured during purge)					
Purge Rate	<u>250 mL/min</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Temp. (°C)	<u>22.23</u>	<u>21.76</u>	<u>20.63</u>	<u>20.60</u>	<u>20.60</u>
DO (mg/l)	<u>3.52</u>	<u>3.34</u>	<u>0.90</u>	<u>0.88</u>	<u>0.86</u>
EC (mS/cm)	<u>2.01</u>	<u>1.96</u>	<u>1.84</u>	<u>1.84</u>	<u>1.84</u>
PH	<u>6.40</u>	<u>6.40</u>	<u>6.40</u>	<u>6.39</u>	<u>6.39</u>
ORP (mV)	<u>-134</u>	<u>-143</u>	<u>-160</u>	<u>-166</u>	<u>-166</u>
Turbidity (NTU)	<u>119</u>	<u>86</u>	<u>70</u>	<u>69</u>	<u>68</u>
CO2					

Water Color /Tint: Clear

Cloudy (Y/N): No

Any Suspended Sediment: No

Field Parameters measured with: Hanna - U52

Sampled Time: 1032

Sample collection method: Sample Pro, MP-10

Number of Bottles: 9

GROUNDWATER SAMPLING RECORD

Sample/Well ID: MW-7 Project # 01218001-00 T3

Facility Name: Inglewood Oil Field Date: 03/17/21

Well Depth: 56.40 Well Diameter: 2" Casing Material: PVC

Depth to Water: 46.10 Free Product (Y/N): NO

Volume Of Water per Well Volume: _____

Sampler Name(s): Anthony P. Guevara
Sample P1 MP-10

Sampling Equipment: Hachua U52 Tubing Material: Poly Teflon Pump set at 58.00 ft.

Weather Conditions: Sunny & Clear

NOTES: Water is clear and Odorless @ time of sampling.

TIME	<u>1215</u>	<u>1218</u>	<u>1221</u>	<u>1224</u>	<u>1227</u>
Volume Purged	<u>150 mL</u>	<u>1500 mL</u>	<u>2150 mL</u>	<u>3000 mL</u>	<u>3750 mL</u>
Water Level (only if measured during purge)	_____	_____	_____	_____	_____
Purge Rate	<u>250 mL/min</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Temp. (°C)	<u>20.25</u>	<u>19.11</u>	<u>18.01</u>	<u>18.0</u>	<u>18.0</u>
DO (mg/l)	<u>1.40</u>	<u>1.36</u>	<u>1.09</u>	<u>1.08</u>	<u>1.07</u>
EC (mS/cm)	<u>2.61</u>	<u>2.72</u>	<u>2.75</u>	<u>2.78</u>	<u>2.78</u>
PH	<u>7.38</u>	<u>7.09</u>	<u>6.91</u>	<u>6.96</u>	<u>6.96</u>
ORP (mV)	<u>-103</u>	<u>-106</u>	<u>-106</u>	<u>-106</u>	<u>-105</u>
Turbidity (NTU)	<u>107</u>	<u>96</u>	<u>93</u>	<u>90</u>	<u>89</u>
CO2	_____	_____	_____	_____	_____

Water Color /Tint: Clear


Cloudy (Y/N): NO

Any Suspended Sediment: NO

Field Parameters measured with: Hachua - U-52

Sampled Time: 1223 Sample collection method: Sample P10 - MP-10

Number of Bottles: 9



Appendix B

Groundwater Laboratory Analytical Report and Chain-of-Custody Documentation



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 04/01/2021

Tina Schmiesing

SCS Engineers - Long Beach

3900 Kilroy Airport Way, Suite 100

Long Beach, CA 90806

Client Project: Inglewood Oil Field - CSD

BCL Project: Inglewood Oil Field

BCL Work Order: 2108704

Invoice ID: B411837

Enclosed are the results of analyses for samples received by the laboratory on 3/17/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval
Client Service Rep

Stuart Buttram
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2108704 Page 1 of 2

Chain of Custody & Sample Information Record

BC Laboratories Inc.
4100 Atlas Ct.
Bakersfield, CA 93308

21-08704

Client: SCS ENGINEERS		Contact: Tina Schmiessing	Phone No. 562-428-9944	
Address: 3900 Kilroy Airport Way, Suite 100		City: Long Beach	State: CA	Zip: 90806
Project Name: Inglewood Oil Field - CSD		Turn Around Time: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> 3-5 Day <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 Hour	Rush	
Project Number: 01218001.00		*Lab TAT Approval:	*Additional Charges May Apply	
Sampler Information		Analysis Requested		
Name: Anthony L Burrows		Sample Matrix		
Employer: SCS ENGINEERS		DW = Drinking Water		
Signature:		WW = Wastewater		
		GW = Groundwater		
		MW = Monitoring Well		
		S = Soil		
		SW = Stormwater		
		M = Miscellaneous		
Sample ID		Date	Time	Notes
MW-3		3/17/21	1032	Diss. Metals are field filtered
MW-6	-1		1228	
MW-7	-2		0632	
OCTB	-3		1047	
OCEB	-4			
Relinquished By (sign)		Print Name / Company	Date / Time	Received By (Sign)
<i>Anthony Burrows</i>		Anthony Burrows	3/17/21 1510	<i>Geosy Martinez / BCLabs</i>
		Geosy Martinez / BCLabs	3/17/21 1510	Eisy Ramirez

(For Lab Use Only)		Sample Integrity Upon Receipt		Lab Notes
Sample(s) Submitted on Ice?	Yes	No	Temperature °C	
Custody Seal(s) intact?	Yes	No	N/A	
Sample(s) intact?	Yes	No	□ Cooler Blank	



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2108704 Page 2 of 2

BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 1 Of 1							
Submission #: 2108704											
SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID							
Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		YES <input type="checkbox"/> NO <input type="checkbox"/> W / S							
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: PE Thermometer ID: 208		Date/Time: 3/17/21 1955							
Temperature: (A) 0.7 °C / (C) 0.7 °C				Analyst Init: PPE							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1 2 3 4 5 6 7 8 9 10									
QT PE UNPRES		DE DE									
4oz / 8oz / 16oz PE UNPRES											
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F F									
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK		A									
40ml VOA VIAL		AB G ABC									
QT EPA 1664		G									
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 518/519/520											
QT EPA 515.1/515.2											
QT EPA 515											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
8oz EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 820											
8oz / 16oz / 32oz AMBER		HI HI									
8oz / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
ENCORE											
SMART KIT											
SUMMA CANISTER											

Comments:

Sample Numbering Completed By: _____

A = Actual / C = Corrected

Date/Time: 3-17-21

0036

Rev 21 05/23/2016

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2108704-01	COC Number:	---	Receive Date:	03/17/2021 19:55
	Project Number:	---	Sampling Date:	03/17/2021 10:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-6	Lab Matrix:	Water
	Sampled By:	Anthony Burrowes	Sample Type:	Water
			Metal Analysis: 1-Field Filtered and Acidified	
2108704-02	COC Number:	---	Receive Date:	03/17/2021 19:55
	Project Number:	---	Sampling Date:	03/17/2021 12:28
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-7	Lab Matrix:	Water
	Sampled By:	Anthony Burrowes	Sample Type:	Water
			Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time	
2108704-03	COC Number:	---	Receive Date:	03/17/2021 19:55
	Project Number:	---	Sampling Date:	03/17/2021 06:32
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	QCTB	Lab Matrix:	Water
	Sampled By:	Anthony Burrowes	Sample Type:	Trip Blank
2108704-04	COC Number:	---	Receive Date:	03/17/2021 19:55
	Project Number:	---	Sampling Date:	03/17/2021 10:47
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	QCEB	Lab Matrix:	Water
	Sampled By:	Anthony Burrowes	Sample Type:	Water

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8260B	03/19/21 10:00	03/20/21 01:46	RCC	MS-V14	1	B103338	EPA 5030 Water MS

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12-C24)	ND	ug/L	200	74	Luft/FFP	ND		1
Tetracosane (Surrogate)	48.3	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Luft/FFP	03/30/21 10:30	03/31/21 08:12	RSM	GC-19	1	B104419	EPA 3510C/SG

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Total Petroleum Hydrocarbons

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12-C24)	ND	ug/L	200	74	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	61.8	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8015B/FFP	03/22/21 14:30	03/23/21 07:43		BUP	GC-13	1	B103620	EPA 3510C

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

EPA Method 1664

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	0.74	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-1664A HEM	03/24/21 08:00	03/24/21 15:13	MAM	MAN-SV	1	B103799	EPA 1664/HEM

SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Water Analysis (General Chemistry)

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	ND	mg/L	0.20	0.048	EPA-300.0	ND	A07	1
pH	7.47	pH Units	0.05	0.05	SM-4500HB		S05	2
Total Dissolved Solids @ 180 C	1300	mg/L	50	25	SM-2540C	ND	A07	3
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		4
Biochemical Oxygen Demand - Seeded	4.5	mg/L	1.5	1.5	SM17-5210B			5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	03/17/21 23:00	03/18/21 17:08	GSP	IC8	2	B103225	No Prep
2	SM-4500HB	03/19/21 06:30	03/19/21 13:11	RML	MET-1	1	B103085	No Prep
3	SM-2540C	03/19/21 16:00	03/19/21 16:00	CAD	MANUAL	5	B103389	No Prep
4	EPA-353.2	03/18/21 07:57	03/18/21 10:38	MC1	KONE-1	1	B103360	No Prep
5	SM17-5210B	03/18/21 07:00	03/18/21 07:00	JT1	YSIPRO	1.525	B103588	No Prep

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Metals Analysis

BCL Sample ID:	2108704-01	Client Sample Name:	MW-6, 3/17/2021 10:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Arsenic	3.2	ug/L	2.0	0.38	EPA-6020	ND		1
Dissolved Arsenic	ND	ug/L	50	9.2	EPA-6010B	ND		2
Dissolved Barium	26	ug/L	10	3.5	EPA-6010B	ND		2
Dissolved Chromium	ND	ug/L	10	1.0	EPA-6010B	ND		2
Dissolved Cobalt	ND	ug/L	50	1.1	EPA-6010B	ND		2
Dissolved Copper	ND	ug/L	10	1.0	EPA-6010B	ND		2
Dissolved Lead	5.9	ug/L	50	3.5	EPA-6010B	ND	J	2
Dissolved Zinc	14	ug/L	10	5.0	EPA-6010B	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-6020	03/18/21 14:24	03/19/21 20:01	ARD	PE-EL4	1	B103300	EPA 3005A
2	EPA-6010B	03/22/21 17:01	03/22/21 23:00	JCC	PE-OP3	1	B103545	EPA 3005A

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2108704-02	Client Sample Name:	MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8260B	03/19/21 10:00	03/20/21 02:09	RCC	MS-V14	1	B103338	EPA 5030 Water MS

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Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID:	2108704-02	Client Sample Name:	MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12-C24)	ND	ug/L	200	74	Luft/FFP	ND		1
Tetracosane (Surrogate)	44.5	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	Luft/FFP	03/30/21 10:30	03/31/21 08:40	RSM	GC-19	1	B104419	EPA 3510C/SG

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Total Petroleum Hydrocarbons

BCL Sample ID:	2108704-02	Client Sample Name:	MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12-C24)	ND	ug/L	200	74	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	63.5	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8015B/FFP	03/22/21 14:30	03/23/21 08:06		BUP	GC-13	1	B103620	EPA 3510C

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

EPA Method 1664

BCL Sample ID:	2108704-02	Client Sample Name:	MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	0.74	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-1664A HEM	03/24/21 08:00	03/24/21 15:13	MAM	MAN-SV	1	B103799	EPA 1664/HEM

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Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Water Analysis (General Chemistry)

BCL Sample ID:	2108704-02	Client Sample Name:	MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Nitrate as N	5.4	mg/L	0.20	0.048	EPA-300.0	ND	A07	1
pH	6.94	pH Units	0.05	0.05	SM-4500HB		S05	2
Total Dissolved Solids @ 180 C	1400	mg/L	50	25	SM-2540C	ND	A07	3
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		4
Biochemical Oxygen Demand - Seeded	1.5	mg/L	1.5	1.5	SM17-5210B			5

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-300.0	03/17/21 23:00	03/18/21 18:10	GSP	IC8	2	B103225	No Prep
2	SM-4500HB	03/19/21 06:30	03/19/21 13:19	RML	MET-1	1	B103085	No Prep
3	SM-2540C	03/19/21 16:00	03/19/21 16:00	CAD	MANUAL	5	B103389	No Prep
4	EPA-353.2	03/18/21 07:57	03/18/21 10:38	MC1	KONE-1	1	B103360	No Prep
5	SM17-5210B	03/18/21 07:00	03/18/21 07:00	JT1	YSIPRO	1.525	B103588	No Prep

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Metals Analysis

BCL Sample ID: 2108704-02		Client Sample Name: MW-7, 3/17/2021 12:28:00PM, Anthony Burrowes						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Arsenic	3.6	ug/L	2.0	0.38	EPA-6020	ND		1
Dissolved Arsenic	ND	ug/L	50	9.2	EPA-6010B	ND		2
Dissolved Barium	87	ug/L	10	3.5	EPA-6010B	ND		2
Dissolved Chromium	2.1	ug/L	10	1.0	EPA-6010B	ND	J	2
Dissolved Cobalt	ND	ug/L	50	1.1	EPA-6010B	ND		2
Dissolved Copper	3.8	ug/L	10	1.0	EPA-6010B	ND	J	2
Dissolved Lead	10	ug/L	50	3.5	EPA-6010B	ND	J	2
Dissolved Zinc	20	ug/L	10	5.0	EPA-6010B	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-6020	03/18/21 14:24	03/19/21 20:03		ARD	PE-EL4	1	B103300	EPA 3005A
2	EPA-6010B	03/22/21 17:01	03/22/21 23:05		JCC	PE-OP3	1	B103545	EPA 3005A

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID:	2108704-03	Client Sample Name:	QCTB, 3/17/2021 6:32:00AM, Anthony Burrowes					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8260B	03/19/21 10:00	03/20/21 02:32	RCC	MS-V14	1	B103338	EPA 5030 Water MS

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 2108704-04		Client Sample Name: QCEB, 3/17/2021 10:47:00AM, Anthony Burrowes						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8260B	03/19/21 10:00	03/20/21 02:55	RCC	MS-V14	1	B103338	EPA 5030 Water MS

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103338						
Benzene	B103338-BLK1	ND	ug/L	0.50	0.083	
Ethylbenzene	B103338-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	B103338-BLK1	ND	ug/L	0.50	0.11	
Toluene	B103338-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	B103338-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	B103338-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	B103338-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	B103338-BLK1	112	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B103338-BLK1	98.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B103338-BLK1	99.6	%	80 - 120 (LCL - UCL)		

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B103338										
Benzene	B103338-BS1	LCS	23.891	25.000	ug/L	95.6		70 - 130		
Toluene	B103338-BS1	LCS	25.336	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B103338-BS1	LCS	11.180	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	B103338-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	B103338-BS1	LCS	10.330	10.000	ug/L	103		80 - 120		

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B103338		Used client sample: N									
Benzene	MS	2108755-15	ND	23.991	25.000	ug/L		96.0		70 - 130	
	MSD	2108755-15	ND	25.159	25.000	ug/L	4.8	101	20	70 - 130	
Toluene	MS	2108755-15	ND	26.021	25.000	ug/L		104		70 - 130	
	MSD	2108755-15	ND	27.064	25.000	ug/L	3.9	108	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2108755-15	ND	12.000	10.000	ug/L		120		75 - 125	
	MSD	2108755-15	ND	11.720	10.000	ug/L	2.4	117		75 - 125	
Toluene-d8 (Surrogate)	MS	2108755-15	ND	10.120	10.000	ug/L		101		80 - 120	
	MSD	2108755-15	ND	9.9800	10.000	ug/L	1.4	99.8		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2108755-15	ND	10.420	10.000	ug/L		104		80 - 120	
	MSD	2108755-15	ND	10.420	10.000	ug/L	0	104		80 - 120	

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B104419						
Diesel Range Organics (C12-C24)	B104419-BLK1	ND	ug/L	200	74	
Tetracosane (Surrogate)	B104419-BLK1	58.7	%	37 - 134 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B104419										
Diesel Range Organics (C12-C24)	B104419-BS1	LCS	1737.7	2500.0	ug/L	69.5		52 - 128		
Tetracosane (Surrogate)	B104419-BS1	LCS	63.810	100.00	ug/L	63.8		37 - 134		

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B104419		Used client sample: N									
Diesel Range Organics (C12-C24)	MS	2108269-59	ND	1861.7	2500.0	ug/L		74.5		50 - 127	
	MSD	2108269-59	ND	1845.0	2500.0	ug/L	0.9	73.8	24	50 - 127	
Tetracosane (Surrogate)	MS	2108269-59	ND	77.160	100.00	ug/L		77.2		37 - 134	
	MSD	2108269-59	ND	62.255	100.00	ug/L	21.4	62.3		37 - 134	

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Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103620						
Diesel Range Organics (C12-C24)	B103620-BLK1	ND	ug/L	200	74	
Tetracosane (Surrogate)	B103620-BLK1	73.0	%	37 - 134 (LCL - UCL)		

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SCS Engineers - Long Beach
3900 Kilroy Airport Way, Suite 100
Long Beach, CA 90806

Reported: 04/01/2021 12:40
Project: Inglewood Oil Field
Project Number: Inglewood Oil Field - CSD
Project Manager: Tina Schmiesing

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B103620										
Diesel Range Organics (C12-C24)	B103620-BS1	LCS	1614.7	2500.0	ug/L	64.6		52 - 128		
Tetracosane (Surrogate)	B103620-BS1	LCS	59.490	100.00	ug/L	59.5		37 - 134		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B103620		Used client sample: N									
Diesel Range Organics (C12-C24)	MS	2108269-16	ND	1683.7	2500.0	ug/L		67.3		50 - 127	
	MSD	2108269-16	ND	1684.1	2500.0	ug/L	0.0	67.4	24	50 - 127	
Tetracosane (Surrogate)	MS	2108269-16	ND	68.950	100.00	ug/L		69.0		37 - 134	
	MSD	2108269-16	ND	61.700	100.00	ug/L	11.1	61.7		37 - 134	

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EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103799						
Oil and Grease	B103799-BLK1	ND	mg/L	5.0	0.74	

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EPA Method 1664

Quality Control Report - Laboratory Control Sample

								Control Limits		
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
Oil and Grease	QC Batch ID: B103799									
	B103799-BS1	LCS	38.300	37.800	mg/L	101		78 - 114		

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EPA Method 1664

Quality Control Report - Precision & Accuracy

									Control Limits		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B103799		Used client sample: N									
Oil and Grease	DUP	2104352-96	ND	ND		mg/L				18	
	MS	2109272-03	ND	35.327	35.327	mg/L		100		78 - 114	
	MSD	2109272-03	ND	34.673	35.327	mg/L	1.9	98.1	18	78 - 114	

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103225						
Nitrate as N	B103225-BLK1	ND	mg/L	0.10	0.024	
QC Batch ID: B103360						
Nitrite as N	B103360-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B103389						
Total Dissolved Solids @ 180 C	B103389-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B103588						
Biochemical Oxygen Demand - Seeded	B103588-BLK1	ND	mg/L	1.0	1.0	

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B103085										
pH	B103085-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: B103225										
Nitrate as N	B103225-BS1	LCS	4.7750	5.0000	mg/L	95.5		90 - 110		
QC Batch ID: B103360										
Nitrite as N	B103360-BS1	LCS	0.48402	0.50000	mg/L	96.8		90 - 110		
QC Batch ID: B103389										
Total Dissolved Solids @ 180 C	B103389-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: B103588										
Biochemical Oxygen Demand - Seeded	B103588-BS1	LCS	190.02	198.00	mg/L	96.0		85 - 115		

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Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

									<u>Control Limits</u>		
Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	RPD	Percent Recovery	Lab Quals
QC Batch ID: B103085		Used client sample: N									
pH	DUP	2108687-02	7.8100	7.8500		pH Units	0.5		20		
QC Batch ID: B103225		Used client sample: N									
Nitrate as N	DUP	2108692-01	ND	ND		mg/L			10		
	MS	2108692-01	ND	4.9394	5.0505	mg/L		97.8		80 - 120	
	MSD	2108692-01	ND	4.9242	5.0505	mg/L	0.3	97.5	10	80 - 120	
QC Batch ID: B103360		Used client sample: N									
Nitrite as N	DUP	2108698-02	ND	ND		mg/L			10		
	MS	2108698-02	ND	0.50645	0.52632	mg/L		96.2		90 - 110	
	MSD	2108698-02	ND	0.52158	0.52632	mg/L	2.9	99.1	10	90 - 110	
QC Batch ID: B103389		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	2108694-01	2020.0	2040.0		mg/L	1.0		10		
QC Batch ID: B103588		Used client sample: N									
Biochemical Oxygen Demand - Seeded	DUP	2108696-04	94.550	93.482		mg/L	1.1		20		

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Reported: 04/01/2021 12:40
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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B103300						
Dissolved Arsenic	B103300-BLK1	ND	ug/L	2.0	0.38	
QC Batch ID: B103545						
Dissolved Arsenic	B103545-BLK1	ND	ug/L	50	9.2	
Dissolved Barium	B103545-BLK1	ND	ug/L	10	3.5	
Dissolved Chromium	B103545-BLK1	ND	ug/L	10	1.0	
Dissolved Cobalt	B103545-BLK1	ND	ug/L	50	1.1	
Dissolved Copper	B103545-BLK1	ND	ug/L	10	1.0	
Dissolved Lead	B103545-BLK1	ND	ug/L	50	3.5	
Dissolved Zinc	B103545-BLK1	ND	ug/L	10	5.0	

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	Quals
QC Batch ID: B103300										
Dissolved Arsenic	B103300-BS1	LCS	99.651	100.00	ug/L	99.7		75 - 125		
QC Batch ID: B103545										
Dissolved Arsenic	B103545-BS1	LCS	194.61	200.00	ug/L	97.3		80 - 120		
Dissolved Barium	B103545-BS1	LCS	436.78	400.00	ug/L	109		80 - 120		
Dissolved Chromium	B103545-BS1	LCS	205.16	200.00	ug/L	103		80 - 120		
Dissolved Cobalt	B103545-BS1	LCS	209.06	200.00	ug/L	105		80 - 120		
Dissolved Copper	B103545-BS1	LCS	399.39	400.00	ug/L	99.8		80 - 120		
Dissolved Lead	B103545-BS1	LCS	442.79	400.00	ug/L	111		80 - 120		
Dissolved Zinc	B103545-BS1	LCS	573.81	500.00	ug/L	115		80 - 120		

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Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B103300		Used client sample: N									
Dissolved Arsenic	DUP	2108656-01	0.75400	0.87500		ug/L	14.9		20		J
	MS	2108656-01	0.75400	123.87	102.04	ug/L		121		75 - 125	
	MSD	2108656-01	0.75400	119.04	102.04	ug/L	4.0	116	20	75 - 125	
QC Batch ID: B103545		Used client sample: N									
Dissolved Arsenic	DUP	2108695-03	ND	ND		ug/L			20		
	MS	2108695-03	ND	204.08	204.08	ug/L		100		75 - 125	
	MSD	2108695-03	ND	199.28	204.08	ug/L	2.4	97.6	20	75 - 125	
Dissolved Barium	DUP	2108695-03	152.89	145.94		ug/L	4.7		20		
	MS	2108695-03	152.89	574.60	408.16	ug/L		103		75 - 125	
	MSD	2108695-03	152.89	572.14	408.16	ug/L	0.4	103	20	75 - 125	
Dissolved Chromium	DUP	2108695-03	5.1624	5.1781		ug/L	0.3		20		J
	MS	2108695-03	5.1624	201.80	204.08	ug/L		96.4		75 - 125	
	MSD	2108695-03	5.1624	202.00	204.08	ug/L	0.1	96.4	20	75 - 125	
Dissolved Cobalt	DUP	2108695-03	ND	ND		ug/L			20		
	MS	2108695-03	ND	201.83	204.08	ug/L		98.9		75 - 125	
	MSD	2108695-03	ND	198.98	204.08	ug/L	1.4	97.5	20	75 - 125	
Dissolved Copper	DUP	2108695-03	ND	ND		ug/L			20		
	MS	2108695-03	ND	387.02	408.16	ug/L		94.8		75 - 125	
	MSD	2108695-03	ND	389.46	408.16	ug/L	0.6	95.4	20	75 - 125	
Dissolved Lead	DUP	2108695-03	5.4759	8.4191		ug/L	42.4		20		J,A02
	MS	2108695-03	5.4759	419.82	408.16	ug/L		102		75 - 125	
	MSD	2108695-03	5.4759	416.77	408.16	ug/L	0.7	101	20	75 - 125	
Dissolved Zinc	DUP	2108695-03	ND	ND		ug/L			20		
	MS	2108695-03	ND	555.78	510.20	ug/L		109		75 - 125	
	MSD	2108695-03	ND	547.08	510.20	ug/L	1.6	107	20	75 - 125	

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
S05	The sample holding time was exceeded.



Appendix C

Historical Summary Table and Time Series Graphs

Historical Sampling Results Table
Sentinel Peak Resources- Inglewood Oil Field
Los Angeles, California

Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-3	4/2/2010	1.3	0.14	0.95 toluene	<5.0	900	NA	NA	NA	
	6/2/2010	1.4	<0.10	0.76 toluene	<5.0	780	NA	NA	NA	
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	12/14/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/11/2011	1.1	<0.10	5.8 toluene	<5.0	1100	Below Detection Limit	33 arsenic	40.1	
	6/6/2011	1.3	0.18	Below Detection Limit	<5.0	850	<0.20	28 arsenic	50.5	
	9/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/22/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/15/2012	2.1	0.34	0.85 benzene, 0.57 toluene, 0.5 ethylbenzene, 1.73 xylenes	<5.0	760	Below Detection Limit	37 arsenic, 130 barium, 32 chromium, 36 copper, 4.7 lead, 88 zinc	43.4	
	4/26/2012	1.3	0.19	Below Detection Limit	<5.0	810	Below Detection Limit	28 arsenic, 73 barium, 15 chromium, 19 copper, 79 zinc	40.9	
	8/30/2012	0.99	0.23	Below Detection Limit	<5.0	764	0.1 nitrate	29 arsenic, 16 zinc	Feb-00	
	11/20/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/27/2013	0.73	<0.10	Below Detection Limit	<5.0	880	Below Detection Limit	32 arsenic	52.1	
	5/13/2013	0.78	<0.10	Below Detection Limit	<5.0	910	Below Detection Limit	28 arsenic	57.6	
	8/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	3/13/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/26/2015	1.4	0.43	0.67 toluene	<5.0	950	0.83 nitrite	31 arsenic	46.3	Purged with bailer
	5/18/2015	0.6	<0.10	Below Detection Limit	<5.0	980	Below Detection Limit	28 arsenic	34.8	
	8/18/2015	1.1	<0.10	Below Detection Limit	<5.0	930	Below Detection Limit	Below Detection Limit	37	
	11/16/2015	1.2	0.13	Below Detection Limit	<5.0	840	0.36 nitrate	45 arsenic	70	Purged with bailer
	2/1/2016	0.28	<0.10	Below Detection Limit	<5.0	650	2.7 nitrate	35 arsenic	25.3	
	5/16/2016	0.97	<0.10	Below Detection Limit	<5.0	500	0.36 nitrate	36 arsenic	34	
	8/25/2016	0.72	<0.10	Below Detection Limit	NS	660	<0.10 Nitrate	Below Detection Limit	NS	
	11/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	3/17/2017	0.91	<0.10	Below Detection Limit	<5.0	580	Below Detection Limit	44 arsenic, 170 barium, 35 copper	24.3	
	6/1/2017	0.87	<0.10	Below Detection Limit	<5.0	390	Below Detection Limit	Below Detection Limit	42	
	9/5/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/6/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/15/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	7/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/10/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/19/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2019	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	8/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/13/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/17/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/17/2021	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry

Historical Sampling Results Table
Sentinel Peak Resources- Inglewood Oil Field
Los Angeles, California

Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-4a	4/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/14/2010	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	3/10/2011	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	6/6/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/22/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	4/26/2012	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	8/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	5/13/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	8/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/13/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/26/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/17/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/8/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/5/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/6/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	5/15/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	7/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	12/10/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/19/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/13/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/17/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/17/2021	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry

Historical Sampling Results Table
Sentinel Peak Resources- Inglewood Oil Field
Los Angeles, California

Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-4b	4/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/14/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/6/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/22/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	4/26/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/13/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/13/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/26/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/17/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/8/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/5/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/6/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	5/15/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	7/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	12/10/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/19/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/13/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/17/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/17/2021	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry

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Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-4c	4/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/14/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/12/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/6/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/22/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	4/26/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/27/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/13/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/13/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/26/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/17/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/8/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/5/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/6/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	5/15/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	7/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	12/10/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/19/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/13/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/17/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/17/2021	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry

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Los Angeles, California

Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-5	4/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/2/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/16/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/14/2010	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/11/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/6/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/19/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/22/2011	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/15/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	4/26/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/5/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2012	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/23/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/13/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient Water
	11/21/2013	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/13/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/26/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/17/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/16/2016	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/8/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	6/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	9/5/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/20/2017	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/6/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/15/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	7/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	12/10/2018	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/19/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/22/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/13/2019	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	2/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	5/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	8/25/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	11/17/2020	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry
	3/17/2021	NS	NS	NS	NS	NS	NS	NS	NS	Well Dry

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Los Angeles, California

Well ID	Date	TPH-DRO	TPH-DRO (w/Silica Gel Filtering)	BTEX/MTBE	Total Recoverable Petroleum Hydrocarbons or Oil and Grease	Total Dissolved Solids (TDS)	Nitrate and Nitrite	Metals	BOD	COMMENTS
		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-6	4/2/2010	0.52	<0.10	Below Detection Limit	<5.0	2,300	NA	NA	NA	
	6/2/2010	0.48	<0.10	0.62 toluene	<5.0	2,700	NA	NA	NA	
	9/16/2010	1.20	<0.050	7.2 toluene	<5.0	2,500	Below Detection Limit	70 barium, 22 zinc	49.2	
	12/14/2010	0.31	<0.10	7.4 toluene	7.1	2,500	5.3 nitrate	70 barium	49.5	
	9/19/2011	0.42	<0.10	2.0 toluene	<5.0	2,200	Below Detection Limit	51 barium, 23 zinc	34.1	
	11/22/2011	0.34	<0.10	Below Detection Limit	<5.0	2,000	Below Detection Limit	56 barium	30.4	
	2/15/2012	0.71	0.12	Below Detection Limit	<5.0	2,500	Below Detection Limit	70 barium, 18 zinc	32.6	
	4/26/2012									
	2/14/2012	<0.10	<0.10	<0.50	<5.0	1,600				
	4/26/2012	0.40	<0.10	Below Detection Limit	<5.0	2,200	Below Detection Limit	60 barium	36.7	
	8/30/2012	0.36	<0.10	Below Detection Limit	<5.0	2,580	Below Detection Limit	64 barium	38.8	
	11/20/2012	0.42	<0.10	Below Detection Limit	<5.0	1,400	Below Detection Limit	61 barium	23.2	
	2/27/2013	0.36	<0.10	Below Detection Limit	<5.0	2,600	Below Detection Limit	Below Detection Limit	41.6	
	5/13/2013	0.24	<0.10	Below Detection Limit	<5.0	2,500	Below Detection Limit	Below Detection Limit	63.0	
	8/15/2013	0.40	<0.10	Below Detection Limit	<5.0	2,500	0.65 nitrate	52 barium	23.0	
	11/21/2013	0.36	<0.10	Below Detection Limit	<5.0	2,400	0.61 nitrate	Below Detection Limit	50.7	
	3/13/2014	0.42	<0.10	Below Detection Limit	<5.0	2,800	Below Detection Limit	Below Detection Limit	43.1	
	5/22/2014	0.44	<0.10	Below Detection Limit	<5.0	2,600	Below Detection Limit	Below Detection Limit	37.4	
	11/12/2014	0.32	<0.10	Below Detection Limit	<5.0	2,800	1.5 nitrate	Below Detection Limit	35.9	
	2/26/2015	0.43	<0.10	Below Detection Limit	<5.0	2,400	Below Detection Limit	Below Detection Limit	37.3	
	5/18/2015	0.18	<0.10	Below Detection Limit	<5.0	2,000	Below Detection Limit	Below Detection Limit	33.0	
	8/18/2015	0.64	0.11	Below Detection Limit	<5.0	1,380	Below Detection Limit	Below Detection Limit	35.0	
	11/16/2015	0.31	<0.10	Below Detection Limit	<5.0	2,500	Below Detection Limit	Below Detection Limit	52.6	
	2/1/2016	0.84	<0.10	Below Detection Limit	<5.0	1,600	0.33 nitrate	Below Detection Limit	36.1	
	5/17/2016	NS	NS	Below Detection Limit	<5.0	NS	1.1 nitrate	Below Detection Limit	NS	
	8/25/2016	0.19	<0.10	Below Detection Limit	<5.0	1,200	0.73 nitrate	Below Detection Limit	22.5	
	11/16/2016	0.28	<0.10	2.7 toluene	<5.0	1,200	Below Detection Limit	Below Detection Limit	24.5	
	3/8/2017	0.25	<0.10	Below Detection Limit	<5.0	1,100	Below Detection Limit	Below Detection Limit	14.0	
	6/1/2017	0.23	<0.10	Below Detection Limit	<5.0	680	Below Detection Limit	99 zinc	20.0	
	9/5/2017	0.31	<0.10	Below Detection Limit	<5.0	1,600	Below Detection Limit	Below Detection Limit	39.0	
	11/20/2017	0.27	<0.10	Below Detection Limit	<5.0	1,300	Below Detection Limit	72 copper	14	
	2/6/2018	0.11 J	0.10 J	Below Detection Limit	<5.0	1,900	Below Detection Limit	160 barium, 42 chromium, 8.6 J cobalt, 30 copper, 9.5 J lead, 76 zinc	13	
	5/15/2018	<0.20	<0.20	Below Detection Limit	<5.0	1,900	nitrate 0.068 J	52 barium	1.8	
	7/25/2018	0.24	<0.20	Below Detection Limit	<5.0	1,600	nitrite 0.015 JB	31 barium, 5.6 J copper, 5.9 J zinc	2.0	
	12/12/2018	0.15 J	<0.20	Below Detection Limit	0.89 J	1,700	Below Detection Limit	52 barium	<2.0	
	2/19/2019	<0.20	<0.20	Below Detection Limit	<5.0	1,900	Below Detection Limit	46 barium, 38 zinc	2.0	
	5/22/2019	<0.20	<0.20	Below Detection Limit	<5.0	1,800	Below Detection Limit	53 barium	<1.5	
	8/28/2019	<0.20	<0.20	Below Detection Limit	<5.0	1,500	Below Detection Limit	4.1 arsenic, 35 barium, 25 zinc	<1.5	
	11/13/2019	013 J	0.22	Below Detection Limit	<5.0	1,700	Below Detection Limit	17 J/5 arsenic, 48 barium, 3.1 J copper	2.8	
	2/5/2020	<0.20	<0.20	Below Detection Limit	<5.0	1,800	Below Detection Limit	13 J/3.3 arsenic, 52 barium, 2.1 J copper, 8.8 J lead, 6.3 J zinc	<1.5	
	5/5/2020	<0.20	<0.20	Below Detection Limit	<5.0	1,300	Below Detection Limit	4.2 arsenic, 37 barium, 1.2 J chromium, 5.5 J copper, 20 zinc	4.1	
	8/25/2020	<0.20	<0.20	Below Detection Limit	<5.0	950	Below Detection Limit	4.8 arsenic, 21 barium, 1.8 J copper, 9.4 J lead	3.9	
	11/17/2020	<0.2	<0.2	Below Detection Limit	<5.0	1,000	Below Detection Limit	4.2 arsenic, 24 barium, 2.7 J copper	1.8	
	3/17/2021	<0.2	<0.2	Below Detection Limit	<5.0	1,300	Below Detection Limit	3.2 arsenic, 26 barium, 5.9 J lead, 14 zinc	4.5	

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		C ₁₀ -C ₂₈ (mg/L)	C ₁₀ -C ₂₈ (mg/L)							
MW-7	4/2/2010	0.21	<0.10	0.58 toluene	<5.0	1,100	NA	NA	NA	
	6/2/2010	0.29	<0.10	0.86 toluene	<5.0	1,100	NA	NA	NA	
	9/16/2010	0.48	<0.050	18 toluene	<5.0	2,000	6.9 nitrate	3.2 arsenic, 40 barium, 5.7 cobalt, 28 zinc	20.7	
	12/14/2010	0.25	<0.10	11 toluene	<5.0	2,200	6.0 nitrate	45 barium	35.1	
	3/11/2011	0.18	<0.10	6.4 toluene	<5.0	1,400	5.0 nitrate	Below Detection Limit	15.2	
	6/6/2011	0.25	<0.10	Below Detection Limit	<5.0	1,200	7.0 nitrate	Below Detection Limit	22	
	9/19/2011	0.35	<0.10	2.7 toluene	<5.0	2,700	5.3 nitrate	48 barium	32.8	
	11/22/2011	0.29	<0.10	Below Detection Limit	<5.0	2,500	3.8 nitrate	60 barium	25.6	
	2/15/2012	0.29	0.15	Below Detection Limit	<5.0	1,000	5.5 nitrate	26 barium, 2.7 chromium	14.6	
	4/26/2012	0.12	<0.10	Below Detection Limit	<5.0	510	Below Detection Limit	3.0 chromium, 5.7 copper	11.8	
	8/30/2012	0.15	<0.10	Below Detection Limit	<5.0	1,640	7.15 nitrate	35 barium	22.9	
	11/20/2012	0.26	<0.10	Below Detection Limit	<5.0	1,200	5.0 nitrate	3.0 arsenic, 50 barium	12.7	
	2/27/2013	0.16	<0.10	Below Detection Limit	<5.0	1,600	3.7 nitrate	Below Detection Limit	21.5	
	5/13/2013	<0.10	<0.10	Below Detection Limit	<5.0	2,000	6.4 nitrate	Below Detection Limit	37.8	
	8/15/2013	0.32	<0.10	Below Detection Limit	<5.0	2,500	7.1 nitrate	33 barium	14.3	
	11/21/2013	0.3	<0.10	Below Detection Limit	<5.0	2,200	2.3 nitrate	Below Detection Limit	24.9	
	3/13/2014	0.39	<0.10	Below Detection Limit	<5.0	3,200	3.8 nitrate	Below Detection Limit	33.5	
	5/22/2014	0.39	<0.10	Below Detection Limit	<5.0	1,900	7.9 nitrate	Below Detection Limit	35.3	
	11/12/2014	0.32	<0.10	Below Detection Limit	<5.0	2,100	3.1 nitrate	Below Detection Limit	23.9	
	2/26/2015	0.42	<0.10	Below Detection Limit	<5.0	430	5.3 nitrate, 0.83 nitrite	Below Detection Limit	11.7	
	5/18/2015	<0.10	<0.10	Below Detection Limit	<5.0	700	6.2 nitrate	Below Detection Limit	13.9	
	8/18/2015	0.34	<0.10	Below Detection Limit	<5.0	1,400	4.4 nitrate	Below Detection Limit	20.0	
	11/16/2015	0.24	<0.10	Below Detection Limit	<5.0	1,600	7.3 nitrate	16 arsenic	18.7	
	2/16/2016	0.14	<0.10	Below Detection Limit	<5.0	680	3.6 nitrate	Below Detection Limit	12.7	
	5/17/2016	0.27	<0.10	Below Detection Limit	<5.0	1,300	5.3 nitrate	Below Detection Limit	14.0	
	8/25/2016	0.18	<0.10	Below Detection Limit	<5.0	1,000	0.54 nitrate	Below Detection Limit	12.6	
	11/16/2016	0.26	<0.10	4.0 toluene	<5.0	1,400	4.6 nitrate	Below Detection Limit	15.8	
	3/8/2017	0.21	<0.10	Below Detection Limit	<5.0	<200	1.1 nitrate	Below Detection Limit	ND	
	6/1/2017	0.17	<0.10	Below Detection Limit	<5.0	190	0.60 nitrate	13 chromium	18.0	
	9/5/2017	0.12	<0.10	Below Detection Limit	<5.0	610	2.4 nitrate	Below Detection Limit	17.0	
	11/20/2017	0.12	<0.10	Below Detection Limit	<5.0	1,400	5.0 nitrate	78 copper	<5.0	
	2/6/2018	<0.20	<0.20	Below Detection Limit	<5.0	330	4.3 nitrate	98 barium, 38 chromium, 11 J cobalt, 15 copper, 6.1 J lead, 54 zinc	<1.5	
	5/16/2018	<0.20	<0.20	Below Detection Limit	<5.0	1,600	5.8 nitrate; 0.23 J nitrite	36 barium, 1.7 J cobalt	<1.5	
	7/25/2018	<0.20	<0.20	Below Detection Limit	<5.0	1,600	6.1 nitrate; 0.28 J8 nitrite	14 J arsenic, 36 barium, 2.1 J8 chromium, 2.0 J cobalt, 2.3 J copper	<1.5	
	12/12/2018	<0.20	<0.20	Below Detection Limit	<6.1	290	3.1 nitrate	7.7 J barium, 2.7 J chromium	<1.5	
	2/19/2019	<0.20	<0.20	Below Detection Limit	<5.0	210	1.0 nitrate	9.7 J barium, 1.2 J chromium, 2.2 J cobalt, 43 zinc	3.5	
	5/22/2019	<0.20	<0.20	Below Detection Limit	<5.0	330	1.1 nitrate; 0.015 J nitrite	9.6 J barium, 2.9 J copper	<1.5	
	8/28/2019	<0.20	<0.20	Below Detection Limit	<5.0	580	2.7 nitrate	3.0 arsenic, 9.9 J barium, 1.6 J8 copper, 24 zinc	2.0	
	11/15/2019	0.11 J	<0.20	Below Detection Limit	<5.0	1,600	4.1 nitrate, 0.016 J nitrite	6.4 arsenic, 30 barium, 4.9 J copper, 5.9 J lead	<1.5	
	2/5/2020	<0.20	<0.20	Below Detection Limit	<5.0	520	0.59 nitrate	1.3 J arsenic, 16 barium, 2.7 J copper, 3.9 J lead, 6.2 J zinc	<1.5	
	5/5/2020	0.13 J	<0.20	Below Detection Limit	1.1 J	530	1.6 nitrate	1.4 J arsenic, 17 barium, 2.4 J copper, 7.2 J zinc	3.6	
	8/25/2020	<0.20	<0.20	Below Detection Limit	<5.0	920	3.6 nitrate	4.1 arsenic, 20 barium, 3.9 J copper, 17 J lead, 7.4 J zinc	<1.5	
	12/29/2020	<0.20	<0.20	Below Detection Limit	<5.0	1,800	2.4 nitrate, 0.032 J nitrite	211/8.3 arsenic, 74 barium, 3.4 J copper, 10 J lead	2.3	
	3/17/2021	<0.20	<0.20	Below Detection Limit	<5.0	1,400	5.4 nitrate	3.6 arsenic, 87 barium, 2.1 J chromium, 3.8 J copper, 10 J lead, 20 zinc	1.5	

Notes:

<# indicates parameter was not detected above the indicated method reporting limit

J = Concentration above the method detection limit but below the reporting limit

B = Parameter also detected in the associated method blank

µg/L = micrograms per liter.

mg/L = milligrams per liter.

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

VOCs = Volatile Organic Compounds

MTBE = Methyl tert-butyl ether

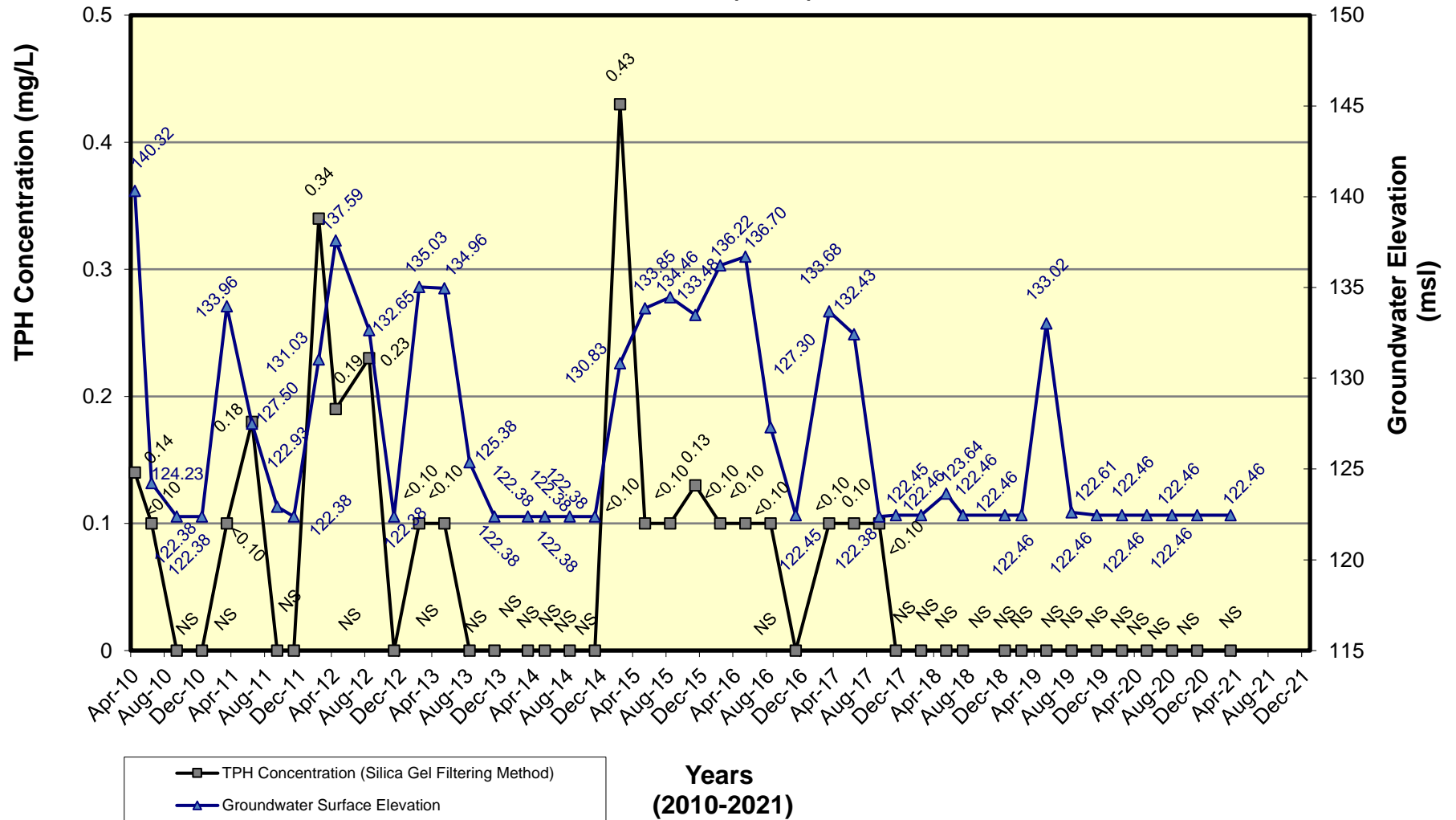
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

BOD = Biochemical Oxygen Demand

NA = Not Analyzed

NS = Not Sampled

TPH Concentrations and Groundwater Elevations Monitor Well (MW-3)

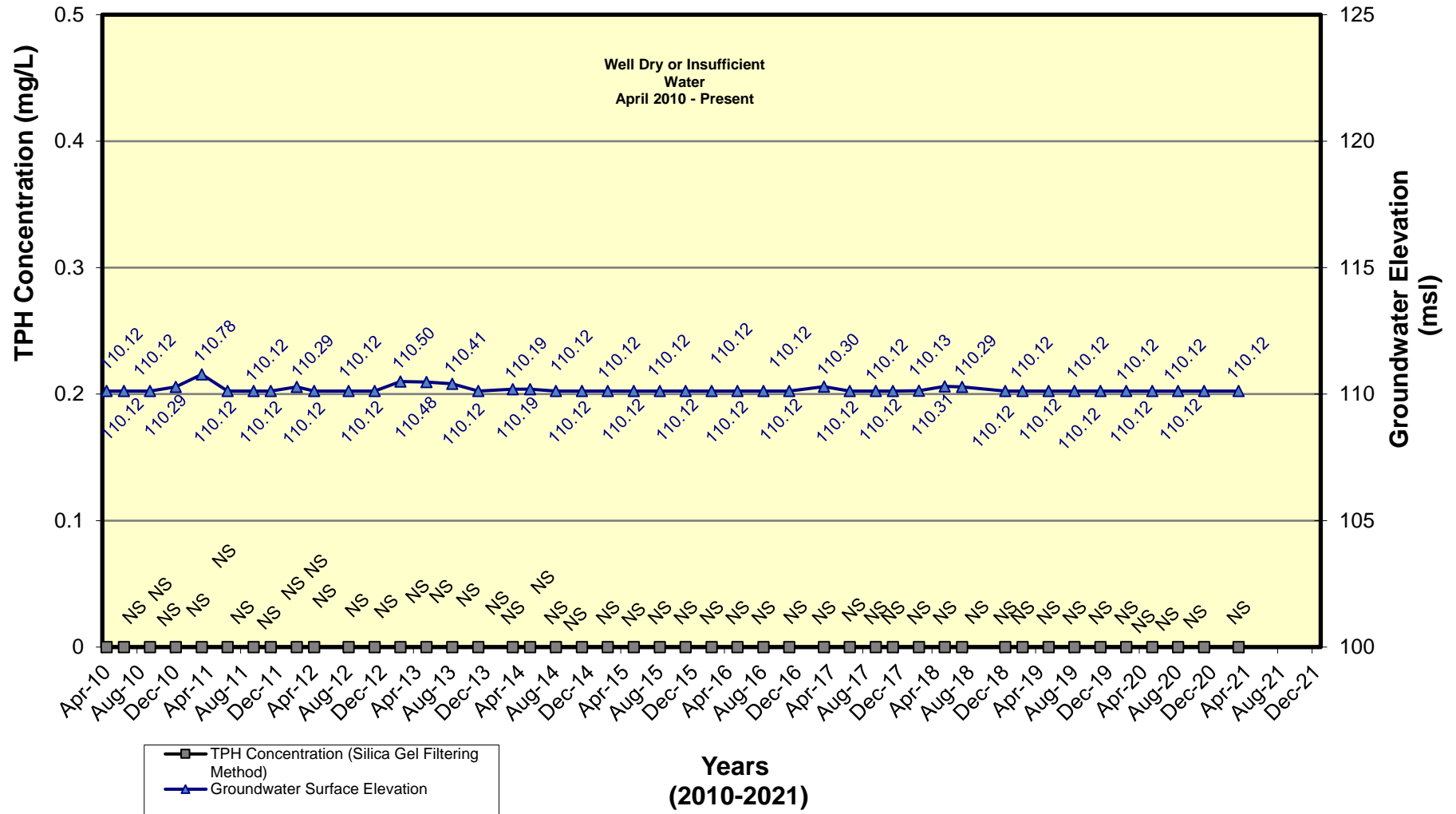


TPH Concentration with Silica Gel Cleanup Presented in milligrams per liter (mg/L)

Well Bottom = 122.38 ft msl

NS = No Sample Collected, Well Dry or Insufficient Water

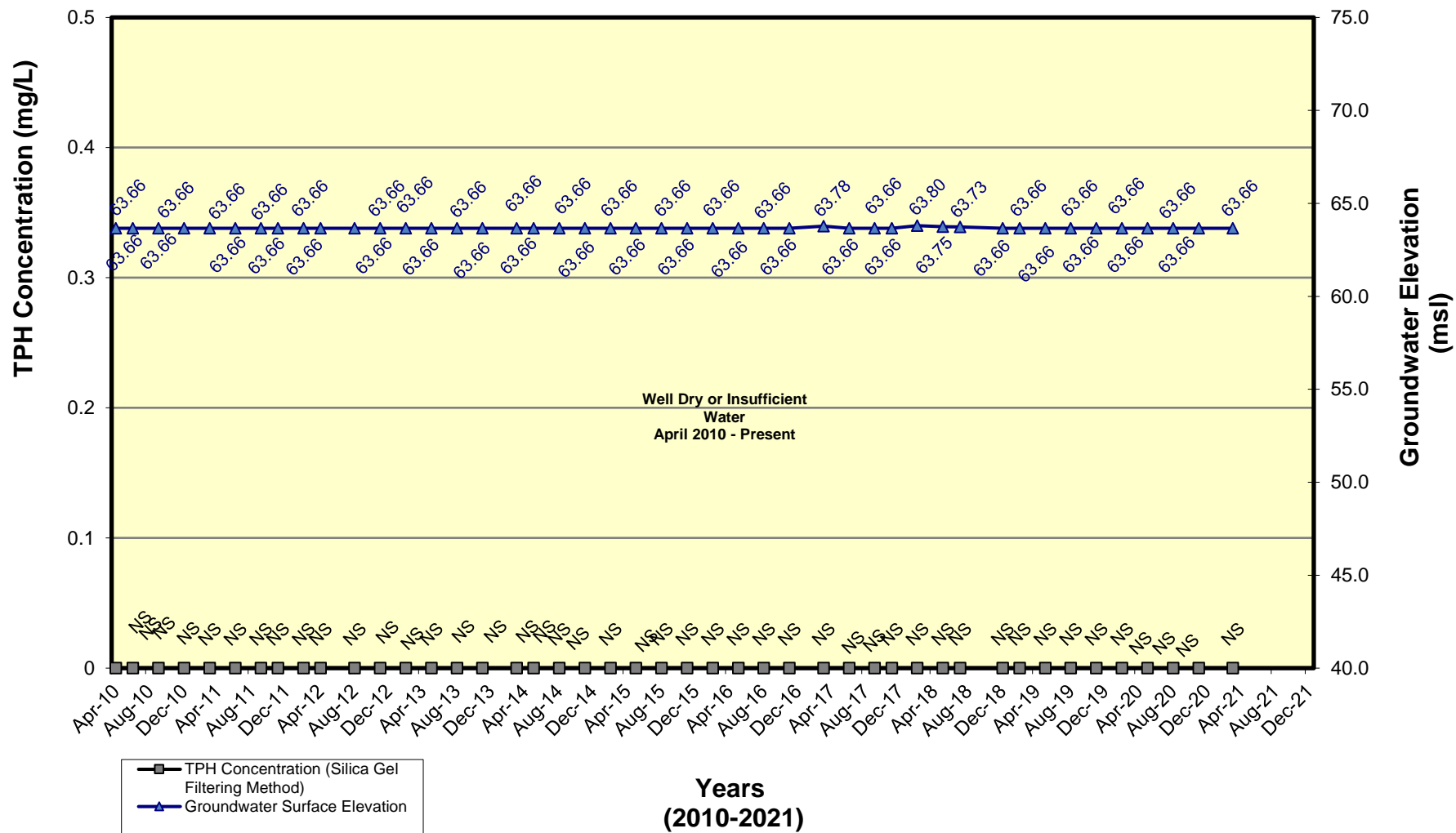
TPH Concentrations and Groundwater Elevations Monitor Well (MW-4a)



NOTE: Well Bottom = 110.12 ft msl

NS = No TPH Sample Collected, Well Dry or Insufficient Water

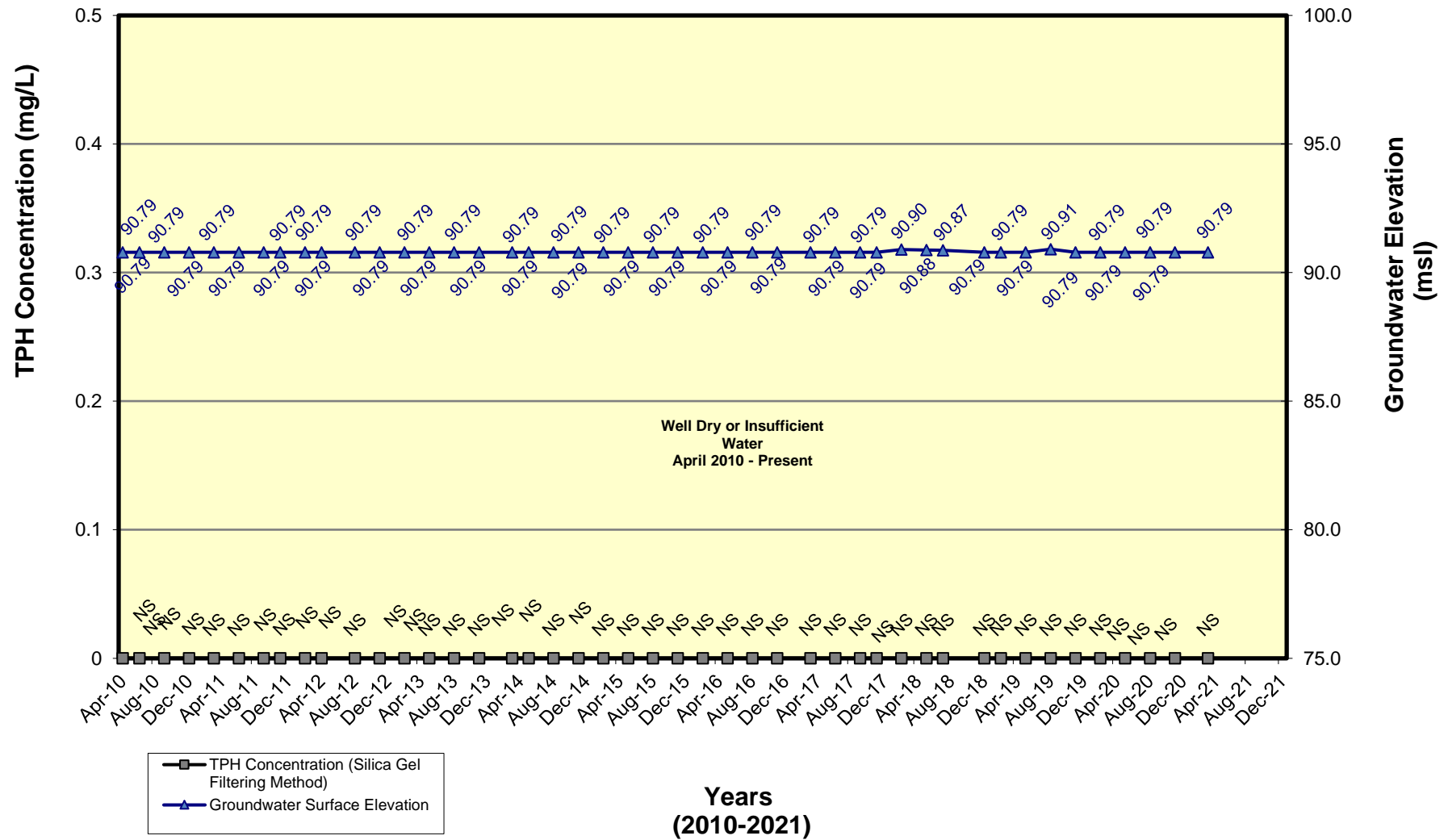
TPH Concentrations and Groundwater Elevations Monitor Well (MW-4b)



NOTE: Well Bottom = 63.66 ft msl

NS = No TPH Sample Collected, Well Dry or Insufficient Water

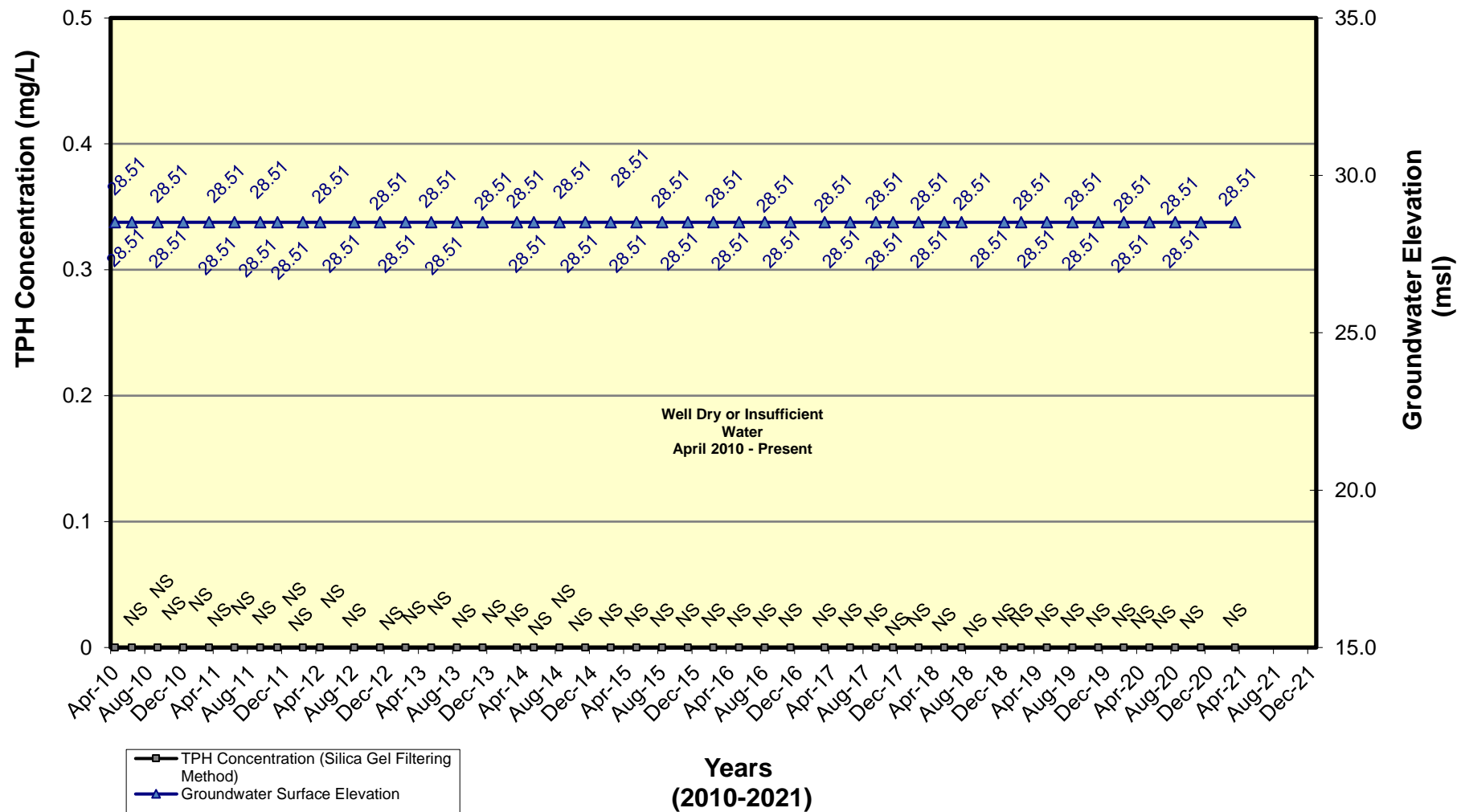
TPH Concentrations and Groundwater Elevations Monitor Well (MW-4c)



NOTE: Well Bottom = 90.79 ft msl

NS = No TPH Sample Collected, Well Dry or Insufficient Water

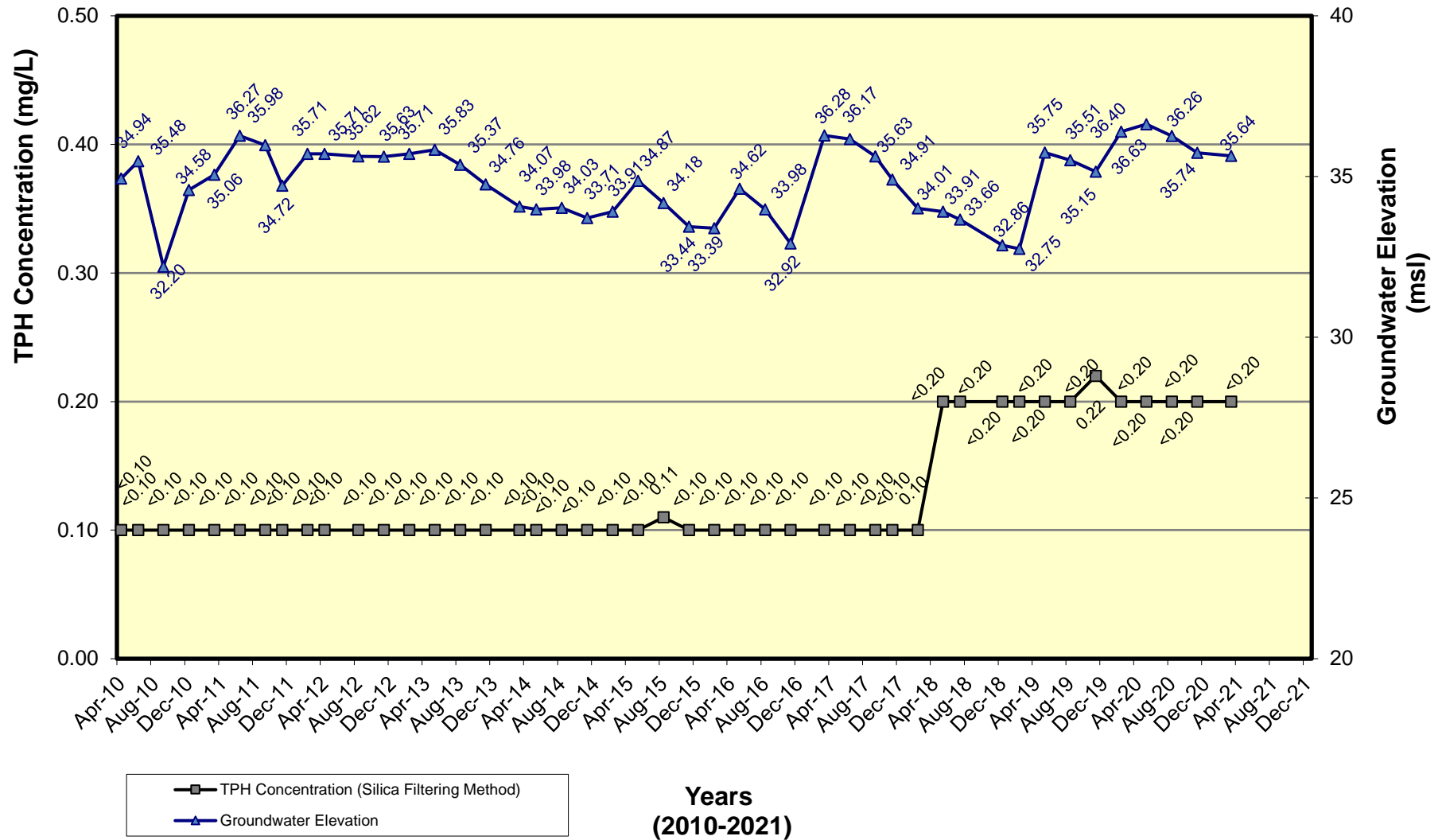
TPH Concentrations and
Groundwater Elevations
Monitor Well (MW-5)



NOTE: Well Bottom = 28.51 ft msl

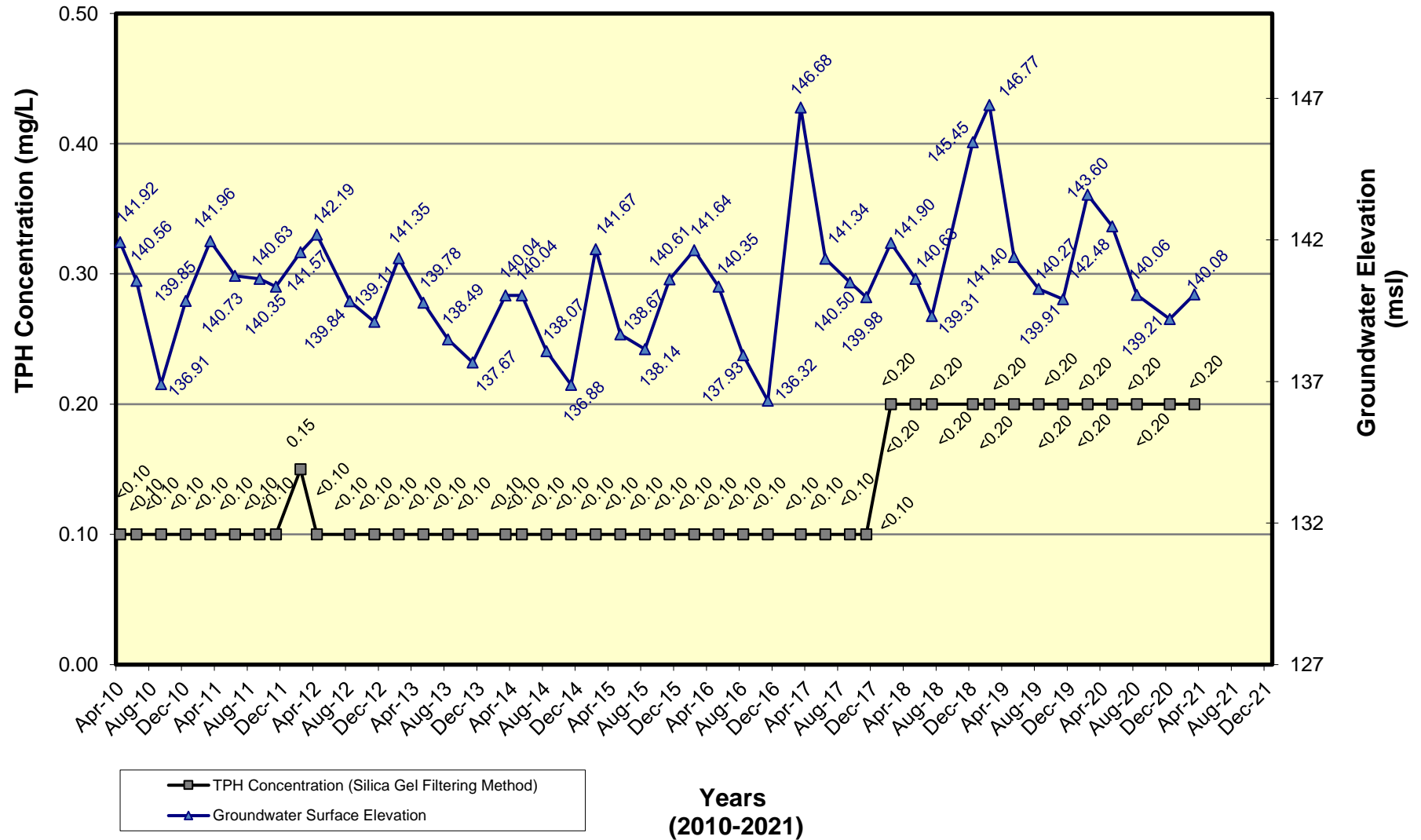
NS = No TPH Sample Collected, Well Dry or Insufficient Water

TPH Concentrations and Groundwater Elevations Monitor Well (MW-6)



NOTE: TPH Concentration with Silica Gel Cleanup Presented in milligrams per liter (mg/L)
Well Bottom = 21.21 ft msl

TPH Concentrations and Groundwater Elevations Monitor Well (MW-7)



NOTE: TPH Reporting Limit (0.1 mg/L April 2010 - Nov 2017; 0.2 mg/L starting Feb 2018)
 TPH Concentration with Silica Gel Cleanup Presented in milligrams per liter (mg/L)
 Well Bottom = 127.04 ft msl
 Dec 29, 2020 and Mar 17, 2021 elevations are estimated. New reference ele. is needed.