



Stantec Consulting Services Inc.
725 East Fireweed Lane Suite 200, Anchorage AK 99503-2245

May 1, 2023

Stantec Project Number 203723146

Mr. Eric Swaisgood
Marathon Petroleum Company, LP
539 South Main Street
Findlay, Ohio 45840

Re: Supplemental 2023 Work Plan for Task 3 – Drill Confirmation Soil Borings (CSBs) to Delineate and Characterize the Petroleum Contaminate Source Speedway Store 5313 (Former Tesoro 2Go Mart 101) and IFC (Currently Crowley Property)
3569 South Cushman Street, Fairbanks, Alaska
ADEC Facility ID #2960; ADEC File #100.26.022

Dear Mr. Swaisgood:

This letter presents the proposed work plan prepared by Stantec Consulting Services, Inc. (Stantec) for the implementation of Task 3 that was proposed in the 2023 Corrective Active Plan (CAP) for the above referenced site.

- Task 3 proposed the installation of 5 to 6 confirmation soil borings (CSBs) to be located at strategic positions on the adjoining IFC property (currently owned by Crowley) and on the Speedway Store #5313 property just south of the on-site aeration treatment tank/drainfield.

Subject to your review and acceptance, this work plan will be submitted to Mr. Pete Campbell with the Alaska Department of Environmental Conservation (ADEC) for approval on the behalf of Tesoro Refining and Marketing Company (Tesoro) for the Speedway Store #5313 and IFC.

Work Plan for Task 3 – Drill 5 to 6 CSBs

The proposed CSBs will be used to assess the site for the extent and characteristics of residual petroleum contamination in the subsurface soil and groundwater table associated with the former contaminated source area. These CSBs will be used to further to delineate and characterize the residual petroleum contamination encountered during the 2022 CSBs investigation completed by Stantec on these sites. The proposed CSBs will be strategically located in positions that are assumed “upgradient” of the 2022 CSBs - approximately 50 to 100-feet to the east and south of the 2022 CSBs as shown on the attached site plan (see **Figure 1**).

The former source consisted of a fuel spill from a former fuel truck loading facility that was supplied by several underground storage tanks. The truck loading facility was used by IFC (Interior Fuel Company) in the 1970s and 1980s, and eventually was removed in 1993 or sooner. The IFC property was acquired in 2013 by Crowley Marine Service, Inc (Crowley) who is the current property owner.

The locations of the proposed borings will be drilled in close proximity (subject to underground utility locates) to the generalized locations depicted on **Figure 1**. Five of the six proposed CSBs will be located at strategic locations around the existing Crowley garage that was built in 2002 in



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the northwest corner of the IFC property. The remaining CSB will be located in the driveway area south of the existing aeration tank/drainfield located on the northeastern portion of the Speedway store property.

The following section describes the method that will be utilized to complete the installation of the CSBs:

- Prior to drilling the CSBs, pre-clearing bore hole will be performed by the driller to a minimum depth of 6-feet. An air knife and soil extraction/vacuum equipment will be used to pre-clear the bore hole. The extracted soil will be field screened with a PID to determine if petroleum contamination is present. Soil found to have elevated PID measurements (exceeding background levels – typically 25 ppmv) will be segregated and securely stored in placard drums. The remaining soil found to have non-elevated PID measurements (background levels – typically 25 ppmv or below) will be used to backfill the soil boring hole.
- A photoionization detector (PID), calibrated before the start of each day with 100 parts per million by volume (ppmv) isobutylene gas standard, will be used to field screen the soil to determine zones of highest potential petroleum contamination. The screening samples will be placed into plastic Ziploc® bags to enhance volatilization prior to headspace screening. Headspace screening will be conducted in 2.5 feet increments or twice per PVC liner.
- A Geoprobe® 7822DT drill rig or equivalent that utilizes a direct push drill method will be used to construct the soil borings.
- Dual Tube “DT45” tooling will be utilized in the monitoring well locations to continually classify soil and identify the depth to groundwater. Soil will be continuously collected in 3-inch diameter PVC liners in 5-foot intervals. Soil recovery will begin at the surface and continue to the depth of completion, or approximately 5-feet below the groundwater level at the time of drilling. Recovered soil will be visually/manually examined for lithology, color, density, moisture content, and indications of petroleum contamination.
- A minimum of two discrete analytical soil samples will be collected from each soil boring. One will be collected from the location with the highest PID reading and one will be collected from soil below the ground water table to assess the migration of contaminants, if any. If PID readings are negligible then a sample will be collected from the “smear” zone or the non-saturated soil just above the groundwater level. The soil samples will be submitted to PACE Laboratories for the following analysis:
 - GRO by Alaska Test Method (AK) 101
 - DRO by AK102
 - VOCs by U.S. Environmental Protection Agency Solid Waste Method (SW) 8260



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- PAHs by SW8270 Selective Ion Monitoring (SIM)
- Laboratory samples will be placed in clean, laboratory-supplied, sample containers with the prescribed preservative for each analytical method. They will be delivered in accordance with standard chain-of-custody procedures to PACE Laboratories. Required quality control samples consisting of a duplicate sample and trip blank sample will also be collected and analyzed.
- Excess soils derived during the drilling of the soil borings that have PID field screening measurements below background levels (typically 25 ppmv) and/or no evidence of fuel stains, will be used to backfill the soil boring hole. The remaining soil “cuttings” found to have elevated PID measurements above background levels (typically 25 ppmv) and/or obvious fuel stains will be stored in drums and labeled with their contents. The drums containing suspected contamination will be placed in a secure area on the north end of the Speedway store property inside a locked fenced area. After analytical results are received from the laboratory, drums of soil found to be contaminated above the ADEC SCLs will be disposed/treated at an appropriate disposal facility approved by ADEC. Soil found to be non-contaminated (below SCLs) will be land spread on-site within the fenced area of the Speedway store property.
- The CSBs will be horizontally surveyed by swing-tie measurements in relation with existing wells and site improvements.

Upon completion of the above described tasks, Stantec will prepare a report that will provide documentation on the field work performed to complete Task 3. The report will include all field screening measurements, field notes and laboratory test results with soil boring logs. Subject to the acceptance of the report by MPC, the final report will be submitted to ADEC.

If you have any questions or need additional information concerning this 2023 Supplemental Work Plan for Task 3, please contact me at (907) 227-9883.

Regards,

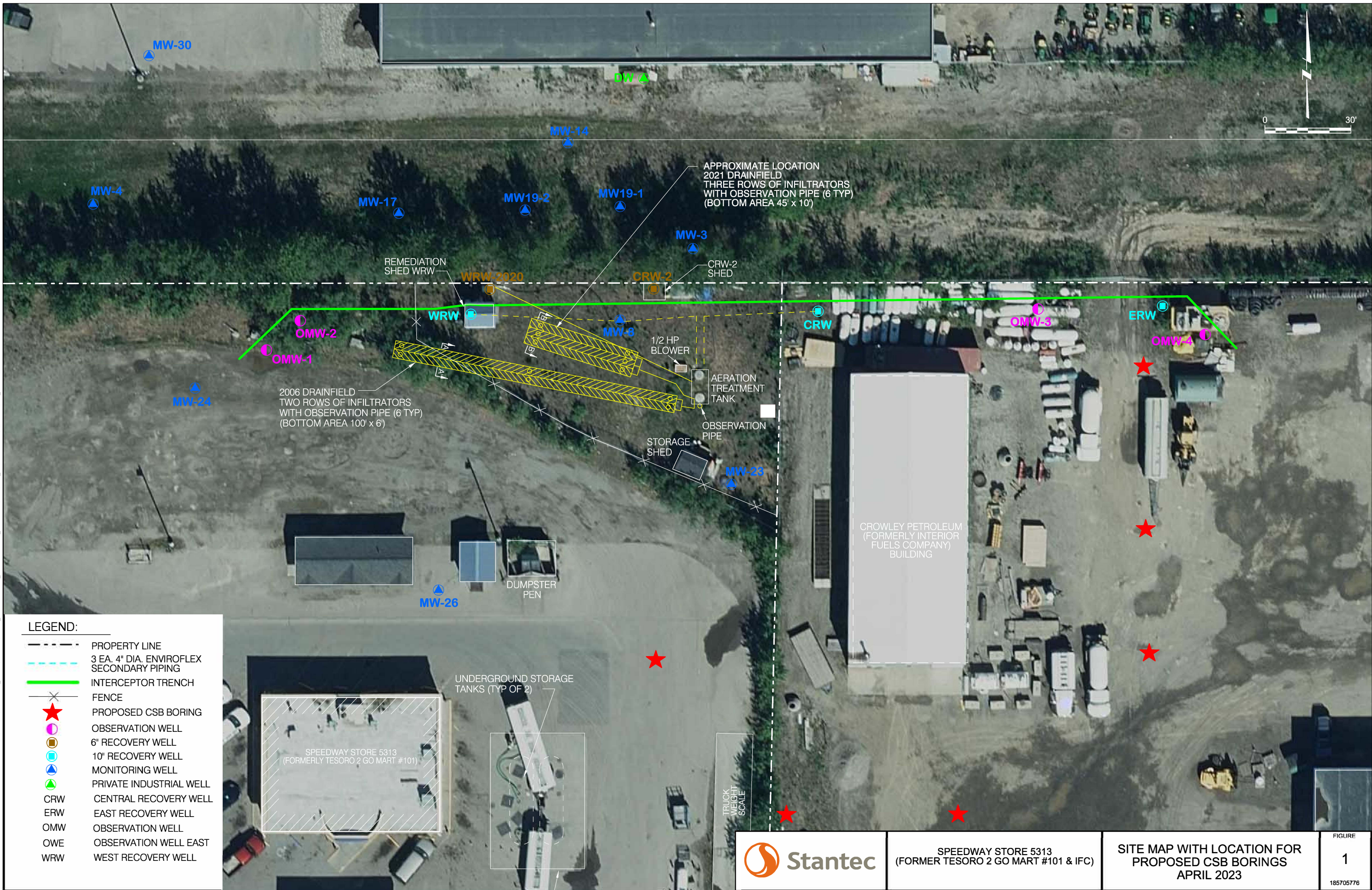
STANTEC CONSULTING SERVICES, INC.

A handwritten signature in black ink, appearing to read "Robert E. Gilfilian".

Robert (Bob) Gilfilian, P.E.
Project Technical Lead,
Principal Senior Civil Engineer

Attachments: Figure 1 - Site Plan with proposed locations for Confirmation Soil Borings (CSBs) dated April 2023.

FILE: C:\D\CAD\Prof\Speedway_TesoroSpeedway 5313_MPC# 157576_(TGMart11FC)_2023\23146\2023\2023_proposed CSBs\Fig01-site plan_CSBS.dgn
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LEGEND:

	PROPERTY LINE
	3 EA. 4" DIA. ENVIROFLEX SECONDARY PIPING
	INTERCEPTOR TRENCH
	FENCE
	PROPOSED CSB BORING
	OBSERVATION WELL
	6" RECOVERY WELL
	10" RECOVERY WELL
	MONITORING WELL
	PRIVATE INDUSTRIAL WELL
CRW	CENTRAL RECOVERY WELL
ERW	EAST RECOVERY WELL
OMW	OBSERVATION WELL
OWE	OBSERVATION WELL EAST
WRW	WEST RECOVERY WELL