BASIN K1BIOINFILTRATION BASIN ANNUAL REPORT

KINDER MORGAN PORT OF PORTLAND TERMINAL 4, SLIP 3

Prepared for

KINDER MORGAN BULK TERMINALS, INC.

1 1040 NORTH LOMBARD STREET PORTLAND, OR 97203 MULTNOMAH COUNTY December 23, 2022 Project No. M1017.01.016



Prepared by Maul Foster & Alongi, Inc. 3140 NE Broadway Street, Portland, OR 97232

BASIN K1 BIOINFILTRATION BASIN ANNUAL REPORT KINDER MORGAN PORT OF PORTLAND TERMINAL 4, SLIP 3

The material and data in this report were prepared under the supervision and direction of the undersigned.

MAUL FOSTER & ALONGI, INC.

Brooke Harmon, PE Project Engineer

> Brian Tino, PE Project Engineer

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1.1 Purpose

Maul Foster & Alongi, Inc., has prepared this annual report on behalf of Kinder Morgan, Inc. (Kinder Morgan) consistent with the performance monitoring and reporting requirements outlined in the April 14, 2022 Kinder Morgan Port of Portland Terminal 4 Operation and Maintenance (O&M) Manual prepared for the Basin K1¹ stormwater treatment and infiltration system. The O&M Manual was approved by the Oregon Department of Environmental Quality (DEQ) on May 7, 2021. This annual report summarizes the performance monitoring of the Basin K1 stormwater treatment and infiltration system for the 2021-2022 operating year (July 1, 2021 through June 30, 2022).

1.2 Reporting Schedule

The O&M Manual requires either a comprehensive or annual report to be submitted to DEQ by October 1 for the next five years starting in 2022. Each report will cover the preceding operating year (July 1 through June 30). The original O&M Manual stated that a comprehensive report would be prepared for July 1, 2021 through June 30, 2022; however, in an email to DEQ on July 15, 2022, Kinder Morgan requested an alternative schedule due to the following system instrumentation troubleshooting that resulted in less than a year of performance monitoring data being available for the reporting year:

- The initial flow meter programing was set up such that the flow meter did not record readings under 100 gallons-per-minute (gpm). This programming error was corrected by the vendor in October 2022. Flows under 100 gpm, i.e., when only one pump was running, were not recorded prior to this correction.
- The transducer level in the flow-control manhole was installed with the bottom of the transducer at the overflow weir elevation but the sensor is 1.5 inches higher, as such the unit should have been installed 1.5 inches lower. The transducer was placed below the overflow weir elevation in December, but outside the stilling well. The transducer location was corrected by the contractor in January 2022. The overflow records from this period (August 31, 2021 to December 15, 2021 may not be accurate.
- The run time for one of the pumps in the pump station was recorded to be 10 times higher than the run time of the second pump and was not feasibly possible. The pump and Scada vendors were contacted to correct the programing and add additional relays to the panel to correct the system settings in March 2022. The total run time for this pump was not accurate prior to March.

¹ Kinder Morgan's Basin K1 was previously referred to as Basin M. R:\1017.01 Kinder Morgan\Documents\016_2022.12.23 KM Basin K1 Annual Report\Rf_KM Basin K1 Annual Report.docx

Kinder Morgan proposed revising the reporting schedule to submitting annual reports for 2021-2022, 2023-2024 and 2024-2025, and comprehensive reports for 2022-2023 and 2025-2026. This revised reporting schedule was approved by DEQ on August 3, 2022.

1.3 Site Background

The Kinder Morgan facility encompasses approximately 9.8 acres and is located at the Port of Portland Terminal 4 in section 02, township 1 north, range 1 west of the Willamette Meridian. Kinder Morgan is located at 11040 North Lombard Street in Portland, Oregon and is bounded to the west by the Willamette River and to the east by North Terminal Road. The site is owned by the Port of Portland and leased by Kinder Morgan (see Figure).

Kinder Morgan is a river-dependent active bulk storage and transfer site that primarily handles soda ash. Soda ash is delivered by rail from mines, stored in the Soda Ash Building and loaded onto ships or rail.

Basin K1 is within the Slip 3 upland area, for which the Port of Portland (Port) entered into a Voluntary Cleanup Program (VCP) Agreement for Remedial Investigation, Source Control Measures, and Feasibility Study with DEQ on December 4, 2003 (LQVC-NWR-03-18) (ECSI #2356).

Stormwater runoff generated at Kinder Morgan discharges to the Willamette River between river miles 4 and 5, consistent with the National Pollutant Discharge Elimination System Stormwater Discharge Permit No. 1200-Z (1200-Z Permit) issued by the DEQ and administered by the City Bureau of Environmental Services (BES).

1.4 Stormwater Treatment and Infiltration System

The Basin K1 stormwater treatment and infiltration system consists of a flow- and spill-control manhole, pump station, sedimentation forebay, and bioinfiltration basin (see Appendix A). Stormwater runoff from Basin K1 is collected in catch basins and conveyed to a spill- and flow-control manhole. The manhole directs design flows to the pump station and traps leaks, spills, and sediment inside the manhole sump. Stormwater gravity-flows from the manhole to the pump station and is pumped to the pretreatment forebay for sedimentation. Pretreated stormwater is then conveyed to the vegetated bioinfiltration basin for treatment (biofiltration and adsorptive filtration) and infiltration. Flows in excess of the bioinfiltration basin capacity overflow from the manhole to the existing Willamette River outfall. Overflows from the bioinfiltration basin are not expected but would be routed to the river outfall.

2 OPERATION AND MAINTENANCE SUMMARY

2.1 Timeline

The following notable dates are associated with the first year of operation of the Basin K1 stormwater treatment and bioinfiltration basin.

- August 31, 2021: Pump station commissioning.
- September 10, 2021: Substantial completion of construction of the stormwater treatment and bioinfiltration basin.
- September 27, 2021: The sedimentation level gauge was installed in the basin and the beehive grate was installed on the overflow riser pipe.
- October 7, 2021: The initial flow meter programming was set up such that the flow meter did not record readings under 100 gpm, i.e., when only one pump was running. The pump vendor corrected this programming error and the flow meter has since been able to record flows less than 100 gpm.
- December 16, 2021: The basin irrigation sprinkler was observed to have fallen over and created a small (approximately 12-inch by 12-inch by 12-inch) scour hole in the basin. The contractor repaired the damage and added rock around the basin to prevent erosion. The transducer was removed from the stilling well in the flow-control manhole and determined to be installed at the incorrect elevation. Since the transducer could not be replaced without a confined space permit, the transducer was placed back in the manhole, but outside of the stilling well.
- January 7, 2022: The transducer was previously installed in the flow-control manhole stilling well with the bottom of the unit at the top of weir elevation; however, the sensor is 1.5 inches above that and as such the unit should have been installed 1.5 inches lower. The contractor lowered the transducer to ensure overflows were properly recorded.
- January 25, 2022: Erosion was observed on the bioinfiltration basin slopes and the contractor added additional rock to armor the slopes.
- February 8, 2022: An additional ladder rung was added to the manhole.
- March 3, 2022: The run time for one of the pumps in the pump station was recorded to be 10 times higher than the run time of the second pump and was not feasibly possible. The pump and Scada vendors were contacted to correct the programing and add additional relays to the panel to correct the system settings. Additionally, the flow rate observed while one pump was running was 40 gpm, when it was previously set to 80 gpm, the contractor adjusted the throttle valve to increase the flow rate to the design flow rate.

2.2 Inspections and Maintenance Activities

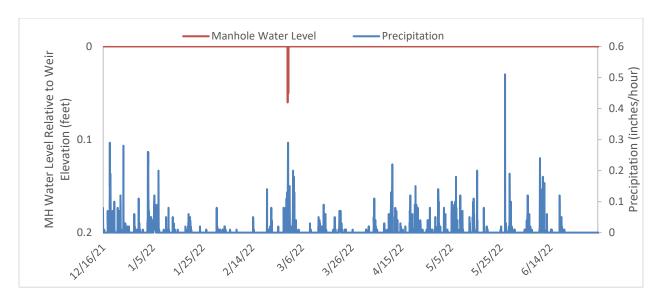
Inspections of the treatment and infiltration system are completed monthly documenting site conditions and maintenance (see Appendix B). No pump failures occurred during the first year of operation, and no major maintenance events were required. Relevant photographs are included in Appendix A.

3 QUANTITATIVE RESULTS

3.1 Summary of Available Data

Water surface levels were measured continuously at 15-minute intervals using pressure transducers in the manhole and basin. Pumped volume data were recorded continuously at one-hour intervals using a MagFlux electromagnetic flow meter. Data is logged on the High Tide Technologies HTT-1100 Scada system. Continuous hourly rain gage data was retrieved from the City's HYDRA rain gage network at the nearby Shipyard rain gage. Precipitation data along with timeseries summaries of basin water surface elevation (ponding above the media bed surface), and flow-control manhole water surface elevation relative to the overflow weir elevation are provided in the following Chart 1 and Chart 2, respectively. For consistency, the basin and manhole water level data were translated based on adjustments to the pressure transducer elevation, following the calibration for each transducer (adjustment of low amperage readings to zero).





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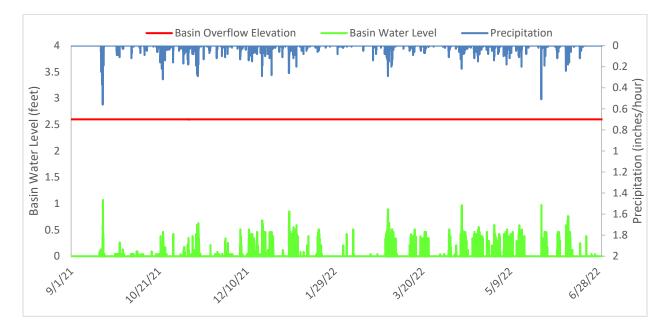


Chart 2 - Basin Water Level Relative to the Basin Overflow Elevation

3.2 Data Interpretation

Chart 1 indicates a bypass from the flow- and spill-control manhole occurred once between December 16, 2022 and June 30, 2022 when a large storm event occurred when the pumps were conveying less than the design flowrate.

Chart 2 shows that no overflow from the bioinfiltration basin occurred from the time of commissioning to the end of June 2022. The maximum ponding depth over the basin media bed was 1.03 feet. However, the water depth when pumping ceased was less than 12 inches; therefore the minimum and maximum infiltration rate when the depth above the media is at least 12 inches cannot be calculated.

Alternatively, an infiltration rate range of 23 to 40 inches per hour was estimated during an event on May 26, 2022 when the ponding depth was 10 inches when flows into the basin ceased. The range of measured infiltration rates was estimated based on basin water levels and pump station flow rates that are recorded in 15 minutes intervals. The higher end of the range does not include the 15-minute interval during which the water level dropped to zero and the lower end of the range includes this interval (in reality, water level in the basin dropped to zero sometime during this 15-minute interval, rather than the end or beginning). The maximum drawdown time observed after pumping stopped was less than 3 hours.

This range is greater than the conservative design rate of 20 inches per hour. The design rate included a factor of safety that accounts for the potential long-term reduction in infiltration rates from sedimentation and/or media compaction. The measured rates indicate that this reduction has not R:\1017.01 Kinder Morgan\Documents\016_2022.12.23 KM Basin K1 Annual Report\Rf_KM Basin K1 Annual Report\documents\016_2022.12.23 KM Basin K1 Annual Report\Rf_KM Basin K1 Annual Report\documents\016_2022.12.23 KM Basin K1 Annual Report\016_2022.12.23 KM Basin K1 Annual

occurred and that the basin is capable of treating more than the design flow at this time and will retain the capacity to treat the design flow rates in the future, even if the infiltration rates are reduced due to sedimentation or compaction.

No erosion has been observed since the contractor armored the slopes above the basin in late January. Vegetation appeared healthy from when it was planted in August 2021 through June 2022.

4 SUMMARY AND RECOMENDATIONS

Based on the available data, the Basin K1 stormwater treatment and bioinfiltration system is operating as designed. Observed infiltration rates are higher than infiltration rates used to design the basin. Kinder Morgan will continue monitoring and maintaining the Basin K1 stormwater treatment and infiltration system consistent with the O&M Manual and submit a Comprehensive Report summarizing the July 1, 2022 to June 30, 2023 year by October 1, 2023.

FIGURE



Site Address: 11040 North Lombard Street, Portland, Oregon Source: Taxlot obtained from Metro RLIS, US Geological Survey (1990) 7.5-minute topographic quadrangle: Linnton Section 33, Township 1 North, Range 1 West

Figure Site Location

Kinder Morgan Portland, Oregon



0 1,000 2,000 Feet



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

APPENDIX A PHOTO ARRAY





PHOTOGRAPHS

Project Name: Kinder Morgan Basin K1 Project Number: M1017.01.016

Location: Port of Portland, Terminal 4

Photo No. 1.

Description

Flow- and spill-control manhole



Photo No. 2.

Description

Sedimentation forebay





PHOTOGRAPHS

Project Name: Kinder Morgan Basin K1 Project Number: M1017.01.016

Location: Port of Portland, Terminal 4

Photo No. 3.

<u>Description</u> Bioinfiltration basin



Photo No. 4.

Description

Erosion at the edge of the basin from sprinkler





PHOTOGRAPHS

Project Name: Kinder Morgan Basin K1 Project Number: M1017.01.016

Location: Port of Portland, Terminal 4

Photo No. 5.

Description

Erosion observed on the slopes above the basin



Photo No. 6.

Description

Additional rock added to armor slopes around the basin



APPENDIX B INSPECTION RECORDS



8/31/21

Checklist Item	(Yes/No)	Additional Information (e.g., Localion, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	NO	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	Ио	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.	1	
Forebay and Bioinfiltration Basin		
Monthly, Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackbery etc.) are observed and remove via mechanical measures.	No	
Dry season, Inspect for sediment accurrivitation, If more than seven inches of sediment, trash, and/or debris is observed in the forebay lover the rock layer] during the dry season inspection, sediment will be removed using a vacuum truck.	_	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	_	
Flow-Control Manhole Maintenance	SUPERIOR N	SATISFACE OF THE PROPERTY OF T
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and- spill control manhole?	No	
Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of floatables is observed, schedule removal with a qulified vacuum truck service.	Иэ	
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a qulified vacuum truck service.	_	
Stormwater System Maintenance: Note stormwa	iter treatm	ent system maintenance activities performed this month.
PUMP STATION	COM	MISSIDNING
Inspected By: BOOKE HKRMO	N	Signature: Brooke Arm

BIOINFILTRATION BASIN INSPECTION FORM

Inspector's Name: BROKE HARMON	Date: 8/31/21
Inspector's Name: BROCK HARMON Location/Facility ID: KINDER MORGAN	ту Time: <u>/03</u> 0
Weather: MOTTY SUNNY 54°F	
Date of Last Rainfall: 8/26/21	Amount: 6.02 inches
Reason for Inspection: Routine (Circle One)	Complaint Major Event (spill or >1" in 24hrs)
INSPECTION SCORING - For each facility 0 = No deficiencies identified 1 = Monitor (potential for future problem) 2 = Routine maintenance required FEATURES 1) Inlet (Flow Spreader) o Structure damaged o Structure clogged or obstructed o Scour / erosion present Other: 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry	y inspection item, insert one of the following scores: 3 = Immediate repair necessary N/A = Not applicable 4) Media Bed
season observation) Vectors / pests present Structural integrity Other: 3) Vegetation Orimming or detritus removal needed Loss of vegetation cover Noxious weeds Other:	Other: 5) Side Slopes Parall / gully erosion Evidence of burrowing animals / pests Slope slippage Structural integrity Other: 6) Emergency Overflow Structure damaged Structure clogged or obstructed Beehive grate displaced Other:
Inspection Summary and Comments:	
OVERALL FACILITY RATING (Circle One)	2 = Routine Maintenance Required
0 = No Deficiencies Identified	
1 = Monitor (potential for future problem exists) 5 - Illillieulate Nepali Neocosary

CONVEYANCES INSPECTION FORM

Date of Last Rainfall: 8/26/21		Amount: <u>0.07</u> inches nt Major Event (spill or >1" in 24hrs
(Circle One)	tine Complain	nt wajor Event (spiii or >1 iii 24iii s
INSPECTION SCORING - F 0 = No deficiencies identified 1 = Monitor (potential for fut 2 = Routine maintenance re	d 3 = Immedia ture problem) N/A = Not a	tem, insert one of the following scores: liate repair necessary applicable
Territoria (Circle Content) Description Period	tht (see Design Drawings) season observation) season observation)	Valve Box O Leaks / water present O Sediment / debris present O Cracks / mechanical damage Other: Upstream Catch Basins O Clogged catch basins O Sediment / debris build-up O Cracks / mechanical damage Other: Other: Punt Station Lommissionin

Inspection Date: 9/27/2

Checklist Item	(Yes/No)	Additional information (e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurlenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	No	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.		
Forebay and Bioinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	No	Some Enosion on Score Made Basin (42" DEEP)
Dry season. Inspect for sediment accumulation. ?! more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock layer) during the dry season inspection, sediment will be removed using a vacuum truck.	1 1 1 1	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfillitation basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	_	
Flow-Control Manhole Maintenance	A ZYZ WEST	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and- spill control manhole?	ho	
Monthly, Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of floatables is observed, schedule removal with a quilified vacuum truck service.	ha	
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a qulified vacuum truck service.	·	
Stormwater System Maintenance: Note stormwa	iter treatme	ent system maintenance activities performed this month.
SEDIMENTATION BEEHIVE GRAE Inspected By: BROOKE HKMM:	CARY	EPLACED IJ H20 PATED HATCH E 400ED TO BASIN DIED TO O'ERFLOW Signature: Prince

CONVEYANCES INSPECTION FORM

Inspector's Name: ZNOOKE HARMON	Date: 9/27/21
Location/Facility ID: KINDER MORLAN TY	Time: /330
Weather: PARTLY CLOUDY 57°F	
Date of Last Rainfall: 9/27/2 (Amount: 0.50 inches
Reason for Inspection: Routine Complaint (Circle One)	Major Event (spill or >1" in 24hrs)
. INSPECTION SCORING - For each facility inspection item	
75 55 56 50 50 50 50 50 50 50 50 50 50 50 50 50	e repair necessary
1 = Monitor (potential for future problem) N/A = Not app	blicable
2 = Routine maintenance required	
<u>FEATURES</u>	
1) Intercept Manhole 3) Va	alve Box
	Leaks / water present
	Sediment / debris present
	Other:
Inlet / outlet piping damaged	Other.
Poor seal to piping Access problems 4) U	ostream Catch Basins
	Clogged catch basins
	Sediment / debris build-up
Z) Wet Well all a l'allipe	Cracks / mechanical damage
Sediment / debris build-up (dry season observation)	Other:
Cracks / mechanical damage	
Inlet / outlet piping damaged	
Poor seal to piping Access problems	
Other:	
Ciro.	
Inspection Summary and Comments:	1
OVERALL FACILITY RATING (Circle One)	
0 = No Deficiencies Identified 2 = Routin	ne Maintenance Required
1 = Monitor (potential for future problem exists) 3 = Immed	diate Repair Necessary

BIOINFILTRATION BASIN INSPECTION FORM Inspector's Name: HARMON KINDER MORGAN TY Location/Facility ID: Amount: 0.50 inches Date of Last Rainfall: Major Event (spill or >1" in 24hrs) Reason for Inspection: Routine Complaint (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary N/A = Not applicable 1 = Monitor (potential for future problem) 2 = Routine maintenance required **FEATURES** 1) Inlet (Flow Spreader) 4) Media Bed Structure damaged > 2" of sediment / debris accumulation Structure clogged or obstructed Trash accumulation Crusting of surface of media bed Scour / erosion present Other: Holes / loss of media / channelization/scour Evidence of burrowing animals / vectors / pests 2) Sedimentation Forebay O Standing water / saturated patches > 30% capacity sediment accumulation (dry season observation) Other: Vectors / pests present 5) Side Slopes Structural integrity Other: Rill / gully erosion Evidence of burrowing animals / pests 3) Vegetation Slope slippage Trimming or detritus removal needed Structural integrity Loss of vegetation cover Other: Noxious weeds 6) Emergency Overflow Other: Structure damaged O Structure clogged or obstructed Beehive grate displaced Other: Inspection Summary and Comments: SAND EXTERN MOMTOR OR ARMOR EROSION OVERALL FACILITY RATING (Circle One)

Q = No Deficiencies Identified

1 = Monitor (potential for future problem exists)

2 = Routine Maintenance Required

3 = Immediate Repair Necessary

Inspection Date: OCT 6,2021

Checklist Item	(Yes/No)	Additional Information (e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
Pump Station Wet Well and Valve Vault		SALE 禁犯的表面 (1) 以来,然后是有一种是一种的人。
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	No	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.	_	
Forebay and Bioinfillration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	Иэ	
Dry season. Inspect for sediment accumulation, If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock ayer) during the dry season inspection, sediment will be removed using a vacuum truck.	١	
Dry Season. In the first three years (2021-2024), inspect If there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides, inspect if there is 90% vegetation covreage after the first three years. Replant If needed.	_	
low-Control Manhole Maintenance	Arrive special	
Aonthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and- pill control manhole?	Po	
Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of loatables is observed, schedule removal with a quiffed vacuum truck service.	Ŋə	
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule emoval with a quiffied vacuum truck service.	-	
Stormwater System Maintenance: Note stormwat	er treatme	nt system maintenance activities performed this month.
normwater System Maintenance: Note stormwat	er mearme	nt system maintenance activities performed this month.
Inspected By: PROCE HARP	ממו	Signature: Page 1

CONVEYANCES INSPECTION FORM

Inspector's Name: Blooke HARNON Date: OCT 6 2021 Location/Facility ID: KINDER HORGAN Time: 1000 Weather: PARTLY CLOUDY 48°F Date of Last Rainfall: OCT 5, 2021 Amount: 0.43 inches	
Reason for Inspection: Routine Complaint Major Event (spill or >1" in 24hrs) (Circle One)	
INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required	
1) Intercept Manhole Desidence of improper weir height (see Design Drawings) Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other: 3) Valve Box Ceaks / water present Cracks / mechanical damage Other: 4) Upstream Catch Basins Clogged catch basins	
2) Wet Well and Pumps O Sediment / debris build-up Cracks / mechanical damage O Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other:	
Inspection Summary and Comments:	
OVERALL FACILITY RATING (Circle One) 0 = No Deficiencies Identified 1 = Monitor (potential for future problem exists) 2 = Routine Maintenance Required 3 = Immediate Repair Necessary	

BIOINFILTRATION BASIN INSPECTION FORM BROOKE HARRIMON OCT 6, 2021 Inspector's Name: Date: Location/Facility ID: KINDER MORGAN TY Time: Weather: PARTY CLOVDY Amount: 0.43 inches Date of Last Rainfall: or 5, 2021 Reason for Inspection: Major Event (spill or >1" in 24hrs) (Routine) Complaint (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = toroud ate repair necessary 1 = Monitor (potential for future problem) M/A = Not applicable 2 = Routine maintenance required **FEATURES** 1) Inlet (Flow Spreader) 4) Media Bed O Structure damaged > 2" of sediment / debris accumulation Structure clogged or obstructed Trash accumulation Scour / erosion present Crusting of surface of media bed Holes / loss of media / channelization/scour Other: Evidence of burrowing animals / vectors / pests 2) Sedimentation Forebay Standing water / saturated patches > 30% capacity sediment accumulation (dry season observation) Other: Vectors / pests present Structural integrity 5) Side Slopes Other: Rill / gully erosion Evidence of burrowing animals / pests O Slope slippage 3) Vegetation Trimming or detritus removal needed Structural integrity Loss of vegetation cover Other: O Noxious weeds Other: 6) Emergency Overflow Structure damaged Structure clogged or obstructed Beehive grate displaced Other: Inspection Summary and Comments: **OVERALL FACILITY RATING (Circle One)**

1 = Monitor (potential for future problem exists)

0 = No Deficiencies Identified

3 = Immediate Repair Necessary

2 = Routine Maintenance Required

Inspection Date:	11	4	21	
	3	800		

Checklist Item	(Yes/No)	Additional information [e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
ump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	p	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valt?	ho	
Ory season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal egulations.	_	
orebay and Bioinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	ΝÞ	
Ony season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the foreboy (over the rock ayer) during the dry season inspection, sediment will be removed using a vacuum truck.	_	
Dry Season. In the first three years (2021-2024), nspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides, nspect if there is 90% vegetation covreage after the first three years. Replant if needed.	_	
low-Control Manhole Maintenance		
Aonthly. Are there any leaks, breaks, or evidence of tamage in the piping, fittings within the flow-and- pill control manhole?	No	
Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of loatables is observed, schedule removal with a quilified vacuum truck service.	Ŋo	
	_	
Stormwater System Maintenance: Note stormwa	ter treatme	ent system maintenance activities performed this month.
of solids is observed in the manhole, schedule removal with a qulified vacuum truck service.	ter treatme	ent system maintenance activities performed this month.
Inspected By: PLOKE HARMON)	Signature: David

CONVEYANCES INSPECTION FORM

spector's Name: BLOCKE HARMON	Date: 11/4/21	
Veather: PAIN 55°F	Time: 1400	
ate of Last Rainfall: 11/4/21	Amount: 0.30 inches	
Reason for Inspection: Routine Complete (Circle One)	aint Major Event (spill or >1" in 24hrs)
INSPECTION SCORING - For each facility inspection	item insert one of the following scores:	1
	ediate repair necessary	
	ot applicable	
FEATURES		
1) Intercept Manhole	3) Varie Box	
Evidence of improper weir height (see Design Drawings)	O Leaks / water present	
Sediment / debris build-up (dry season observation)	O Sediment / debris present	
Cracks / mechanical damage	Cracks / mechanical damage	
Inlet / outlet piping damaged	Other:	
Poor seal to piping		1 1 1
Access problems	4) Upstream Catch Basins	
Other:	Clogged catch basins	
2) Mich Mich and Dumme	O Sediment / debris build-up Cracks / mechanical damage	
2) Wet Well and PumpsSediment / debris build-up (dry season observation)	Other:	
Cracks / mechanical damage	Other.	3
Inlet / outlet piping damaged		
O Poor seal to piping		
Access problems		1
Other:		
Inspection Summers and Commerter		
Inspection Summary and Comments:		
		_
	2 7 7 7	
OVERALL FACILITY RATING (Circle One)		
0 = No Deficiencies Identified 2	= Routine Maintenance Required	

	ATION BASIN ION FORM
Inspector's Name: BROOKE HARMON Location/Facility ID: KINER MOKAN TY	Date: 11/4/24 Time: 1400
Weather: LAIN 55°F	No. of the second
Date of Last Rainfall: 1/4/2	Amount: 6.30 inches
Reason for Inspection: Routine Com (Circle One)	plaint Major Event (spill or >1" in 24hrs)
INSPECTION SCORING - For each facility inspecti	on item, insert one of the following scores:
The state of the s	mediate repair necessary Not applicable
2 = Routine maintenance required	
<u>FEATURES</u>	
Inlet (Flow Spreader) Structure damaged	4) Media Bed 6 > 2" of sediment / debris accumulation
Structure clogged or obstructed	Trash accumulation
Scour / erosion present	Crusting of surface of media bed O Holes / loss of media / channelization/scour
Other:	Evidence of burrowing animals / vectors / pests
2) Sedimentation Forebay	Standing water / saturated patches
> 30% capacity sediment accumulation (dry season observation)	Other:
O Structural integrity	5) Side Slopes
Other:	Rill / gully erosion
	C Evidence of burrowing animals / pests
3) Vegetation	O Structural integrity
Trimming or detritus removal needed Loss of vegetation cover	Other:
O Noxious weeds	
Other:	6) Emergency Overflow
	Structure damaged Structure clogged or obstructed
	Beehive grate displaced
	Other:
Inspection Summary and Comments:	
1	
OVERALL FACILITY RATING (Circle One)	
0 = No Deficiencies Identified 2 =	Routine Maintenance Required
1 = Monitor (potential for future problem exists) 3 =	mmediate Repair Necessary

Inspection Date:	12	16	21	H 1	

Checklist Item	(Yes/No)	Additional Information [e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable and Implementation Date]
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valle?	μo	
Ory season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal egulations.	1	
Forebay and Bloinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two nches deep on side slopes of the bioinfiltration pasin, inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan plackberry etc.) are observed and remove via mechanical measures.	YES	SPEINBLER FELL DIER AND CREATED A 12" × 12" HOLF — NUTTER CONTACTED TO FIX
Ory season. Inspect for sediment accumulation, if more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock ayer) during the dry season inspection, sediment will be removed using a vacuum truck.	1	
Ory Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides, inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	-	
low-Control Manhole Maintenance		Addition to the second
Nonthly. Are there any leaks, breaks, or evidence of lamage in the piping, fittings within the flow-and- pill control manhole?	h	Yaly of St. 11 pl
Aonthly. Inspect any oil, fuel, or other floating liquid the manhole. If more than two inches of loatables is observed, schedule removal with a julified vacuum truck service.	Na	
ry Season. Drain flow-control manhole nd Inspect or sediment accumulation. If more than one-foot if solids is observed in the manhole, schedule emoval with a qulified vacuum truck service.	_	
tormwater System Maintenance: Note stormwa	ter treatme	nt system maintenance activities performed this month.
ADJUST PRI	⊳ €	IN MAPHOLE
Inspected By: BROOKE HALMO	\	Signature:

BIOINFILTRATION BASIN INSPECTION FORM BROOKE HOLMON Inspector's Name: MOLKAN TY Location/Facility ID: KINDER Weather: FOGGY 37 F Amount: 0.53 inches Date of Last Rainfall: Major Event (spill or >1" in 24hrs) Complaint Reason for Inspection: (Routine) (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required **FEATURES** 1) Inlet (Flow Spreader) 4) Media Bed O > 2" of sediment / debris accumulation O Structure damaged Trash accumulation Structure clogged or obstructed Crusting of surface of media bed Scour / erosion present Holes / loss of media / channelization/scour Other: Evidence of burrowing animals / vectors / pests Standing water / saturated patches 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry season observation) Vectors / pests present 5) Side Slopes Structural integrity Rill / gully erosion Other: O Evidence of burrowing animals / pests Slope slippage 3) Vegetation Structural integrity Trimming or detritus removal needed Other: SPRINKLER FEU OUER Loss of vegetation cover Noxious weeds 6) Emergency Overflow Other: Structure damaged Structure clogged or obstructed Beehive grate displaced Other: Inspection Summary and Comments: HOLE 18VE **OVERALL FACILITY RATING (Circle One)**

0 = No Deficiencies Identified

1 = Monitor (potential for future problem exists)

2 = Routine Maintenance Required

3 = Immediate Repair Necessary

CONVEY	3.00
Inspector's Name: Brook HALMON	Date: / 2 16 21
Location/Facility ID: KNOCK MOCKAN TY	Time:930
Weather: FOGGY 37°F	<u> </u>
Date of Last Rainfall: 12/15/21	Amount: 0.53 inches
Reason for Inspection: Comp (Circle One)	olaint Major Event (spill or >1" in 24hrs)
	on item, insert one of the following scores: nediate repair necessary Not applicable
<u>FEATURES</u>	
1) Intercept Manhole D Evidence of improper weir height (see Design Drawings) Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other: 2) Wet Well and Pumps Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other: Other:	O Leaks / water present O Sediment / debris present O Cracks / mechanical damage Other: 4) Upstream Catch Basins O Clogged catch basins Sediment / debris build-up O Cracks / mechanical damage Other:
Inspection Summary and Comments:	
OVERALL FACILITY RATING (Circle One)	
0 = No Deficiencies Identified 2 =	Routine Maintenance Required Immediate Repair Necessary

Inspection Date: 1/25/2022

Checklist IIem	(Yes/No)	Additional Information (e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurlenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	No	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.	-	
Forebay and Bioinfiltration Basin	. 4.	
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	No	
Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock layer) during the dry season inspection, sediment will be removed using a vacuum truck.	1	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	1	
Flow-Control Manhole Maintenance		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and- spill control manhole?	No	
Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of floatables is observed, schedule removal with a qulified vacuum truck service.	No	SUAHT OLYMPIC SHEEN (NOT TPH)
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a quilfied vacuum truck service.	1	
Stormwater System Maintenance: Note stormwa	ter treatme	ent system maintenance activities performed this month.
NUTTER	Ken	IN WANTER Y EUSION
TRAWSOUL	En	PLACED BACK IN STILL WELL
Inspected By: PRIOR HARMON		Signature: Produ Harry

BIOINFILTRATION BASIN INSPECTION FORM

Inspector's Name: Broke HALMON Location/Facility ID: HNDEL MORGAN T Weather: SUNNY W WW PG, 4P	Date: 125 2022 Time: 1100
Date of Last Rainfall: 1/20/22	Amount: 0.12 inches
Reason for Inspection: Routine (Circle One)	Complaint Major Event (spill or >1" in 24hrs)
INSPECTION SCORING - For each facility 0 = No deficiencies identified 1 = Monitor (potential for future problem) 2 = Routine maintenance required	inspection item, insert one of the following scores: 3 = Immediate repair necessary N/A = Not applicable
<u>FEATURES</u>	
1) Inlet (Flow Spreader) Structure damaged Structure clogged or obstructed Scour / erosion present Other: 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry season observation) Vectors / pests present Structural integrity	4) Media Bed D > 2" of sediment / debris accumulation Trash accumulation Crusting of surface of media bed Holes / loss of media / channelization/scour Evidence of burrowing animals / vectors / pests Standing water / saturated patches Other:
Other: 3) Vegetation Trimming or detritus removal needed Loss of vegetation cover	Rill / gully erosion
Other:	6) Emergency Overflow O Structure damaged O Structure clogged or obstructed D Beehive grate displaced Other:
Inspection Summary and Comments:	
SOME SANDPUBETHEEN BASIA	
WILL ASK CONTENUTOR ABOV	OF FLOW SPREADER POCK -
OVERALL FACILITY RATING (Circle One) 0 = No Deficiencies Identified 1 = Monitor (potential for future problem exists)	2 = Routine Maintenance Required 3 = Immediate Repair Necessary

CONVEYANCES INSPECTION FORM

Russian III Compl	Date: 1/25/2022
nspector's Name: BROKE HARMON	Time: // 00
ocation/Facility ID: <u>KINDER MORGAN TY</u>	1 III i e
Veather: SUNNY W WW FOG, 40°	Amount: 0.12 inches
Date of Last Rainfall: 1/20/22	<u> </u>
Reason for Inspection: Routine Comp	plaint Major Event (spill or >1" in 24hrs)
(Circle One)	
INSPECTION SCORING - For each facility inspection	on item, insert one of the following scores:
0 = No deficiencies identified 3 = Imr	nediate repair necessary
	Not applicable
2 = Routine maintenance required	
FEATURES .	
1) Intercept Manhole	3) Valve Box
Evidence of improper weir height (see Design Drawings)	Leaks / water present
Sediment / debris build-up (dry season observation)	O Sediment / debris present Cracks / mechanical damage
Cracks / mechanical damage Inlet / outlet piping damaged	Other:
Poor seal to piping	
Access problems	4) Upstream Catch Basins
Other:	Clogged catch basins Sediment / debris build-up
2) Wet Well and Pumps	O Cracks / mechanical damage
NA Sediment / debris build-up (dry season observation)	Other:
Cracks / mechanical damage	
Inlet / outlet piping damaged Poor seal to piping	
O Access problems	
Other:	
	2
	200.7
	<u>*</u>
Inspection Summary and Comments:	
/ERALL FACILITY RATING (Circle One)	

Inspection Date: FEB 8,2022

Checklist Item	(Yes/No)	Additional Information (e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable and Implementation Date]
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	No	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.	1	
Forebay and Bioinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debts. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	No	
Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock layer) during the dry season inspection, sediment will be removed using a vacuum truck.	_	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	-	
Flow-Control Manhole Maintenance	Company of the Company	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and-spill control manhole?		
Monthly, Inspect any oil, fuel, or other floating liquid in the manhole. If more than two Inches of floatables is observed, schedule removal with a quilified vacuum truck service.	No	
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a quilified vacuum truck service.	-	
Stormwater System Maintenance: Note stormwater	er treatmen	nt system maintenance activities performed this month.
The state of the s		LADDER RUNG ADDED TO MANHOLE
Inspected By: BROOKE HARM	NO	Signature: 2

BIOINFILTRATION BASIN INSPECTION FORM BROOKE HARMON Inspector's Name: Location/Facility ID: KINDER MOLGAN 41°F DUERCAST Amount: 0.01 inches Date of Last Rainfall: Major Event (spill or >1" in 24hrs) Complaint Reason for Inspection: Routine (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 3 = Immediate repair necessary 0 = No deficiencies identified N/A = Not applicable 1 = Monitor (potential for future problem) 2 = Routine maintenance required **FEATURES** 4) Media Bed 1) Inlet (Flow Spreader) > 2" of sediment / debris accumulation Structure damaged Trash accumulation Structure clogged or obstructed Crusting of surface of media bed Scour / erosion present O Holes / loss of media / channelization/scour Other: Evidence of burrowing animals / vectors / pests Standing water / saturated patches 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry Other: season observation) O Vectors / pests present 5) Side Slopes Structural integrity O Rill / gully erosion Other: Evidence of burrowing animals / pests Slope slippage 3) Vegetation Structural integrity Trimming or detritus removal needed Other: Loss of vegetation cover Noxious weeds 6) Emergency Overflow Other: O Structure damaged O Structure clogged or obstructed Beehive grate displaced Other: Inspection Summary and Comments: **OVERALL FACILITY RATING (Circle One)** 0 = No Deficiencies Identified 2 = Routine Maintenance Required 1 = Monitor (potential for future problem exists) 3 = Immediate Repair Necessary

CONVEYANCES INSPECTION FORM

Inspector's Name: BUDOKE HARMON Date: 2/8/22 Location/Facility ID: KINDER MORGAN TY Time: 11:00 Weather: OKERCAT 41'F Date of Last Rainfall: 2/7/22 Amount: 0.01 inches
Reason for Inspection: Complaint Major Event (spill or >1" in 24hrs) (Circle One)
INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required FEATURES
1) Intercept Manhole
OVERALL FACILITY RATING (Circle One) 2 = Routine Maintenance Required 1 = Monitor (potential for future problem exists) 3 = Immediate Repair Necessary

Inspection Date: MARCH 1, 2022 11-100

Checklist Item	(Yes/No)	(e.g., Location, Source, Detailed Description, Corrective Action Implemented (if applicable) and Implementation Date)
ump Station Wet Well and Valve Vault		April 19 Comment of the Comment of t
nonthly. Are there any leaks, breaks, or evidence of lamage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the value vault?	No	The second of th
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wel well, pressure wash wel the well and manage the wash water and solids consistent with applicable disposal regulations.	_	
Forebay and Bioinfiltration Basin		
Monthly, inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	No	
Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock layer) during the dry season inspection, sediment will be removed using a vacuum truck.	-	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfillration basin and 70% at the sides Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.		
Flow-Control Manhole Maintenance	Van Sala	
Monthly. Are there any leaks, breaks, or evidence damage in the piping, fittings within the flow-and-spill control manhole?	° No	No. 2 de la companya
Monthly. Inspect any oil, fuel, or other floating liquing the manhole. If more than two inches of floatables is observed, schedule removal with a quiffied vacuum truck service.	No	
Dry Season. Drain flow-control manhole nd Inspector sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule arround with a quilified vacuum truck service.	_	
Maristangace: Note Storm	water trea	tment system maintenance activities performed this month.
Stormwater System Maintenance: Note that	was to be a first	
	MON	Signature: Rank A

BIOINFILTRATION BASIN INSPECTION FORM Date: MKRU-1, 2022 PRODLE HARMON Inspector's Name: Time: 11:00 KINGER MORGAN TY Location/Facility ID: Weather: Amount: 0.3 inches Date of Last Rainfall: MARCH 1, 2022 Major Event (spill or >1" in 24hrs) Complaint Reason for Inspection: Routine (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 3 = Immediate repair necessary 0 = No deficiencies identified N/A = Not applicable 1 = Monitor (potential for future problem) 2 = Routine maintenance required **FEATURES** 4) Media Bed 1) Inlet (Flow Spreader) O_> 2" of sediment / debris accumulation Structure damaged Trash accumulation Structure clogged or obstructed Crusting of surface of media bed Scour / erosion present Holes / loss of media / channelization/scour Other: Evidence of burrowing animals / vectors / pests Standing water / saturated patches 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry Other: season observation) Vectors / pests present 5) Side Slopes Structural integrity Rill / gully erosion Other: Evidence of burrowing animals / pests Slope slippage 3) Vegetation Structural integrity Trimming or detritus removal needed Other: Loss of vegetation cover Noxious weeds 6) Emergency Overflow Other: Structure damaged Structure clogged or obstructed Beehive grate displaced Inspection Summary and Comments: **OVERALL FACILITY RATING (Circle One)**

0 = No Deficiencies Identified

1 = Monitor (potential for future problem exists)

2 = Routine Maintenance Required

3 = Immediate Repair Necessary

CONVEYANCES INSPECTION FORM

Reason for Inspection: Routine Complair (Circle One)	Amount: <u>0</u> ,3 inches Major Event (spill or >1" in 24hrs)
INSPECTION SCORING - For each facility inspection ltt 0 = No deficiencies identified 3 = Immedi 1 = Monitor (potential for future problem) N/A = Not a 2 = Routine maintenance required	ate repair necessary
Evidence of improper weir height (see Design Drawings) Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping	Valve Box Leaks / water present Cracks / mechanical damage Other: Upstream Catch Basins Clogged catch basins Sediment / debris build-up Cracks / mechanical damage Other:

Inspection Date: 4/28/22 1435

Checklist Item	(Yes/No)	Additional Information (e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date)
Pump Station Wet Well and Valve Vault		
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	NO	
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.		
Forebay and Bioinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfillration basin. Inspect any Poisonous or nusance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	20	
Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock ayer) during the dry season inspection, sediment will be removed using a vacuum truck.	ı	
Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed.	1	
low-Control Manhole Maintenance	ver, kitali	CHARLES TO THE STATE OF THE STA
Nonthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings within the flow-and- pill control manhole?	NO	
Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of floatables is observed, schedule removal with a quilfied vacuum truck service.	3	SULL HT SHEEN, (POSSIBLY OLGANG) LOTED IN MH. ADDED OIL ASSOCIBALT BOOK TO STREAM SIDE OF MH
Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a quilified vacuum truck service.	_	
Stormwater System Maintenance: Note stormwa	ter treatme	ent system maintenance activities performed this month.
Inspected By: Blook Howelman)	Signature: Brushe A

L\Projects\1017.01 Kinder Morgan\10_Tier ii Permitting\Dratt Documents\DEQ O&M\100% Comments\Appendix 8 - Inspections & Maintenance Records\App 8 Inspections & Maintenance Records\App 8 Inspections & Maintenance Records xixx

BIOINFILTRATION BASIN INSPECTION FORM Inspector's Name: BROKE HARMON Location/Facility ID: KINDER MORGAN TH Weather: Cloudy Date of Last Rainfall: 4/27 Amount 0.02 inches Reason for Inspection: Complaint Major Event (spill or >1" in 24hrs) Routine (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required **FEATURES** 1) Inlet (Flow Spreader) 4) Media Bed O Structure damaged 0 > 2" of sediment / debris accumulation Structure clogged or obstructed Trash accumulation O Scour / erosion present O Crusting of surface of media bed Other: O Holes / loss of media / channelization/scour O Evidence of burrowing animals / vectors / pests 2) Sedimentation Forebay O Standing water / saturated patches > 30% capacity sediment accumulation (dry season observation) Other: Vectors / pests present Structural integrity 5) Side Slopes Other: Rill / gully erosion D Evidence of burrowing animals / pests 3) Vegetation O Slope slippage Trimming or detritus removal needed **b** Structural integrity Loss of vegetation cover Other: Noxious weeds Other: 6) Emergency Overflow Structure damaged Structure clogged or obstructed Beehive grate displaced Other: Inspection Summary and Comments: **OVERALL FACILITY RATING (Circle One)** Q=No Deficiencies Identified 2 = Routine Maintenance Required 1 = Monitor (potential for future problem exists) 3 = Immediate Repair Necessary

1) Intercept Manhole Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other: SUCHT SHEW ON SAFRE 3) Valve Box Leaks / water present Cracks / mechanical damage Other: Upstream Catch Basins Clogged catch basins Sediment / debris build-up
Circle One
INSPECTION SCORING - For each facility inspection item, insert one of the following scores: O = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required
Evidence of improper weir height (see Design Drawings) NO Sediment / debris build-up (dry season observation) O Cracks / mechanical damage O Inlet / outlet piping damaged O Access problems Other: SUGUT SHEED ON SADDRE 2) Wet Well and Pumps O Cracks / mechanical damage Other: Sediment / debris build-up (dry season observation) O Cracks / mechanical damage O Other: O Cracks / mechanical damage O Other: O Cracks / mechanical damage O Cracks / mechanical damage
Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems
Inspection Summary and Comments: OIL ARSOLANT TOOM ADDED TO
VERALL FACILITY RATING (Circle One)

BIOINFILTRATION BASIN INSPECTION FORM BROWE HARMON Inspector's Name: Date: Location/Facility ID: KINDER MORAN TY-BASINKI Weather: book PARTLY CLOUDY Date of Last Rainfall: 5127/22 Amount: ~ 0.05 inches Reason for Inspection: Routine Complaint Major Event (spill or >1" in 24hrs) (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary Man O 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required **FEATURES** 1) Inlet (Flow Spreader) 4) Media Bed Structure damaged O > 2" of sediment / debris accumulation Structure clogged or obstructed Trash accumulation O Crusting of surface of media bed Scour / erosion present O Holes / loss of media / channelization/scour Evidence of burrowing animals / vectors / pests 2) Sedimentation Forebay Standing water / saturated patches > 30% capacity sediment accumulation (dry D Other: season observation) Vectors / pests present 5) Side Slopes Structural integrity O Rill / gully erosion Other: DEAD Evidence of burrowing animals / pests Slope slippage 3) Vegetation Structural integrity Trimming or detritus removal needed Other: Loss of vegetation cover Noxious weeds 6) Emergency Overflow Structure damaged Structure clogged or obstructed O Beehive grate displaced Inspection Summary and Comments: FOREBAM REMORE SEASONAL MAINTENANCE **OVERALL FACILITY RATING (Circle One)** 2 = Routine Maintenance Required 0 = No Deficiencies Identified 1 = Monitor (potential for future problem exists) 3 = Immediate Repair Necessary

CONVEYANCES INSPECTION FORM Inspector's Name: Bruske HARM W Location/Facility ID: KIM 60 Date of Last Rainfall: Amountro.05 inches Major Event (spill or >1" in 24hrs) Reason for Inspection: Routine Complaint (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 0 = No deficiencies identified 3 = Immediate repair necessary 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required **FEATURES** pos nibela in 1) Intercept Manhole 3) Valve Box O_Leaks / water present Evidence of improper weir height (see Design Drawings) O Sediment / debris present Sediment / debris build-up (dry season observation) O Cracks / mechanical damage Cracks / mechanical damage Inlet / outlet piping damaged Other: Poor seal to piping 4) Upstream Catch Basins Access problems Clogged catch basins Other: O Sediment / debris build-up O Cracks / mechanical damage 2) Wet Well and Pumps Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other: Inspection Summary and Comments: MANUHOLE BOOM **OVERALL FACILITY RATING (Circle One)** 2 = Routine Maintenance Required 0 = No Deficiencies Identified 3 = Immediate Repair Necessary 1 = Monitor (potential for future problem exists)

CONVEYANCE

Inspection Date: 5 27 22 1500

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Checklist Item	(Yes/No)	Additional Information (e.g., Location, Source, Detailed Description, Corrective Action Implemented (if applicable) and Implementation Date)
Pump Station Wet Well and Valve Vault	715	WEINGROUP ENGINEER STORY
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well?	No	
Monthly. Are there any leaks, breaks, or evidence of damage in the piping, valves, and fittings within the valve vault?	No	The state of the s
Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations.		3.71
Forebay and Bioinfiltration Basin		
Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures.	No	POSSIBLE DEAD ATLAGE IN FOREBAY - REMOVE W/ SEASONAL MAINTENCE IF PRESENT
Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock ayer) during the dry season inspection, sediment will be removed using a vacuum truck.	_	
ory Season. In the first three years (2021-2024), aspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides, aspect if there is 90% vegetation covreage after ne first three years. Replant if needed.	_	
ow-Control Manhole Maintenance	white each	A TEN TONE HORSEN AND THE STATE SHOW A PROPERTY OF THE STATE OF THE ST
onthly. Are there any leaks, breaks, or evidence of amage in the piping, fittings within the flow-and- ill control manhole?	No	
onthly. Inspect any oil, fuel, or other floating liquid the manhole. If more than two inches of patables is observed, schedule removal with a ulfiled vacuum truck service.	No	DIL BOOM STILL IN MH FROM LAST MONTH
y Season. Drain flow-control manhole nd Inspect r sediment accumulation. If more than one-foot solids is observed in the manhole, schedule moval with a quilified vacuum truck service.	-	
ormwater System Maintenance: Note stormwate	r treatment	system maintenance activities performed this month.
	ye tidle si	The commence of the same
ispected By: Birage Harnon		Signature: Ranka A

BIOINFILTRATION BASIN INSPECTION FORM HARMON Inspector's Name: Location/Facility ID: KM TY SUNNY Weather: Amount: <u>~0.1</u> inches Date of Last Rainfall: Major Event (spill or >1" in 24hrs) Complaint Reason for Inspection: Routine (Circle One) INSPECTION SCORING - For each facility inspection item, insert one of the following scores: 3 = Immediate repair necessary 0 = No deficiencies identified 1 = Monitor (potential for future problem) N/A = Not applicable 2 = Routine maintenance required **FEATURES** 4) Media Bed 1) Inlet (Flow Spreader) 0 > 2" of sediment / debris accumulation Structure damaged _Trash accumulation Structure clogged or obstructed O Crusting of surface of media bed Scour / erosion present O Holes / loss of media / channelization/scour Other: O Evidence of burrowing animals / vectors / pests O Standing water / saturated patches 2) Sedimentation Forebay > 30% capacity sediment accumulation (dry Other: season observation) Vectors / pests present 5) Side Slopes Structural integrity O Rill / gully erosion Other: O Evidence of burrowing animals / pests O Slope slippage 3) Vegetation O Structural integrity Trimming or detritus removal needed Other: Loss of vegetation cover Noxious weeds 6) Emergency Overflow Other: O Structure damaged O Structure clogged or obstructed Beehive grate displaced Inspection Summary and Comments: OVERALL FACILITY RATING (Circle One) 2 = Routine Maintenance Required 0 = No Deficiencies Identified 1 = Monitor (potential for future problem exists) 3 = Immediate Repair Necessary

CONVEY	
nspector's Name: BROCKE HALMON Location/Facility ID: KM TH BASIN KI Weather: SUNNY Date of Last Rainfall: 6/18/122	Date: 6/21/27 Time: 1130 Amount: 10.1 inches
Reason for Inspection: Routine Comple	
(Circle One)	. 200
	n item, insert one of the following scores: ediate repair necessary ot applicable
<u>FEATURES</u>	RI CONTRACTOR OF THE CONTRACTO
1) Intercept Manhole O Evidence of improper weir height (see Design Drawings) O Sediment / debris build-up (dry season observation) Cracks / mechanical damage Inlet / outlet piping damaged	3) Valve Box Leaks / water present Sediment / debris present Cracks / mechanical damage Other:
Poor seal to piping Access problems Other:	4) Upstream Catch Basins Clogged catch basins Sediment / debris build-up Cracks / mechanical damage
Sediment / debris build-up (dry season observation)	Other:
Cracks / mechanical damage Inlet / outlet piping damaged Poor seal to piping Access problems Other:	
Inspection Summary and Comments:	
/ERALL FACILITY RATING (Circle One)	

11:30 am 6/21/22 Additional Information [e.g., Location, Source, Detailed Description, Corrective Action Implemented [if applicable] and Implementation Date) (Yes/No) Checklist Item Pump Station Wet Well and Valve Vault Monthly. Are there any leaks, breaks, or evidence of damage in the piping, fittings and appurtenances within the wet well? No Monthly. Are there any leaks, breaks, or evidence of No damage in the piping, valves, and fittings within the valve vault? Dry season. Drain pump station wet well and inspect for sediment accumulation. If more than six inches of solids is observed in the wet well, pressure wash wet the well and manage the wash water and solids consistent with applicable disposal regulations. Forebay and Bioinfiltration Basin Monthly. Inspect any accumulation of stormwater solids and debris. Inspect eroded damage over two inches deep on side slopes of the bioinfiltration basin. Inspect any Poisonous or nuisance No vegetation, and noxious weeds (Himalayan blackberry etc.) are observed and remove via mechanical measures. Dry season. Inspect for sediment accumulation. If more than seven inches of sediment, trash, and/or debris is observed in the forebay (over the rock layer) during the dry season inspection, sediment will be removed using a vacuum truck. Dry Season. In the first three years (2021-2024), inspect if there is 80% vegetation coverage at the bottom of bioinfiltration basin and 70% at the sides. Inspect if there is 90% vegetation covreage after the first three years. Replant if needed. Flow-Control Manhole Maintenance Monthly. Are there any leaks, breaks, or evidence o No damage in the piping, fittings within the flow-andspill control manhole? Monthly. Inspect any oil, fuel, or other floating liquid in the manhole. If more than two inches of floatables is observed, schedule removal with a No

Stormwater System Maintenance: Note stormwater treatment system maintenance activities performed this month.

Inspected By:	POOLE	HARMON	Signature:	BA	wohe I	form
"Ispecial"	P00 - C	TINO			50.19	The standard section of the section

I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

qulified vacuum truck service.

Dry Season. Drain flow-control manhole nd inspect for sediment accumulation. If more than one-foot of solids is observed in the manhole, schedule removal with a qulified vacuum truck service.