
BEDROCK EXPLORATION & PRODUCTION - Alexander 400 Pad

Produced Water Release

Final Remediation Report



January 28, 2022

Document Number: GE-002-2022-0103



Catawater HHO, LLC

BEDROCK EXPLORATION & PRODUCTION - Alexander 400 Pad Produced Water Release

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February 10, 2022



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EXECUTIVE SUMMARY

Spur Environmental Services (SPUR) thanks BEDROCK EXPLORATION & PRODUCTION for the opportunity to perform the Environmentally Non-Disruptive Produced Water Remediation at the Alexander 400 Pad ("Project") location. These specialty projects fall under the auspice of our "Green Earth Projects" which uses SPUR's cutting-edge proprietary treatment application and a biocatalyst that accelerates reaction rates of naturally occurring processes, thus allowing for an organic and harmonized environmental restoration of a once compromised location.

SPUR is partnered with and is the exclusive provider of the Catawater HHO, LLC ("CATAWATER") proprietary catalyst which allows your site to remain in-tact while providing restorative services to remediate contaminated soils without the destructive impact of a typical mechanical dig and haul operation. This

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cutting-edge approach enables the accelerated destruction of Oils and NaCl, based entirely on natural extracts that function in synergistic association with microorganisms, natural elements and natural processes in the environment to accelerate the contaminate elimination in such functions as in situ bio-remediation, which not only repairs, but regenerates your site.

Our certified and trained chemical engineers assess the unique environmental composition of the site, while evaluating the compromising breach, as well as the most efficient application of the patented product to restore the site to the optimal natural state. The team that works on these projects has direct experience in managing and performing Environmental work for large E&P Companies across multiple locations such as in the Barnett Shale, Permian Basin, and Bakken Shale Play in the recent past. This team is inclusive of Environmental Chemists, Scientists, Engineers, and Technicians who work toward one goal – Renewing the Earth through the Synergy of Nature and Technology.

This report is a concise accounting of the work performed and the successful outcomes. SPUR has worked within an execution plan depicting our structure for the full remediation and project acceptance of the BEDROCK EXPLORATION & PRODUCTION - Alexander 400 Pad Produced Water Release Project. This comprehensive execution plan identifies the sequential steps of the process from pre-analysis, catalyst dilution rates, application, post analysis and Project closure. The holistic and tailored approach we of combining proprietary cutting-edge technology with highly skilled and trained application and analytical professionals yield a result that is truly amazing. We look forward to our continued successful partnership.



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EXECUTION PLAN

Project Start Date: November 23, 2021 (Initial Sampling)
February 2, 2022 (Clearance Sampling)

Project Completion Date: February 2, 2022

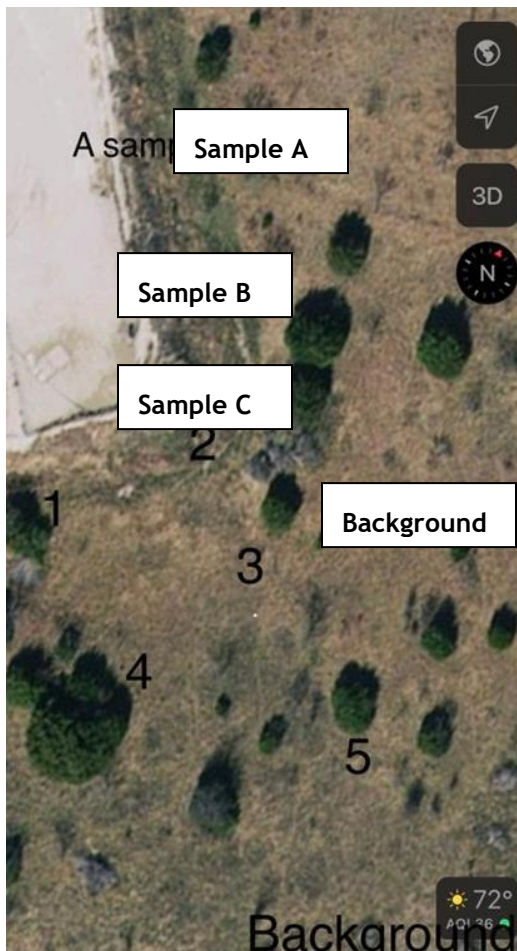
E&P Contact: Randy Unger

Site Name: Alexander 400 Pad

Release Type: Produced Water

Contaminate: Chlorides

Site Map and Sample Locations:



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Communication

One of the keys to success in any project is communication as well as organized and effective approach to remediation that produces a successful project completion. Therefore, SPUR remains easily accessible via phone and email, but we also provide daily and bi-weekly schedule updates to ensure operational transparency and to fully manage and complete the project in a timely and accurate fashion. Additionally, SPUR's Project Manager will hold daily, on-site Schedule discussions with the various management teams to best schedule work, which allows for optimal, timely and efficient coordination between various groups on site.

Site Arrival and Incident Scene Protocol

Upon notification for treatment by BEDROCK EXPLORATION & PRODUCTION, SPUR deployed a team of personnel who implemented bioremediation protocols/application which includes facility layout, plume analysis, product mixture ratios and the analysis of third-party laboratory results for the various sample points. On this location, the customer clearly defined the Release and the contaminants (TPH/BTEX/Chlorides) and was present during the sampling procedures. SPUR utilized our field-testing equipment to ensure there were no other constituents of concern or other safety concerns prior to starting the Project.

Subcontract Management

Each event may require uniquely skilled labor to ensure efficiency and success on a project and at times, SPUR will require subcontractor assistance. The subcontractor chart below depicts all subcontractors utilized on the project. SPUR will have a minimum of one on-site event Manager from the beginning of the Project until completion who will be responsible for managing the overall coordination of all work, subcontractors, materials management, and schedule. SPUR understands that there are many complexities to managing subcontractors and the integration of uniquely skilled personnel into one cohesive team; therefore, based on our previous experience managing Environmental projects we are confident that our subcontractor management approach will produce effective results.

Contractor / Subcontractor	Scope of Work
TTI Environmental Labs	Sample Analytical

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Commencement of Activities on-site

SPUR began this project by mapping the Eleven (11) samples, taken by a Spur Environmental Services employee that is a Certified Environmental Sampler (CES). The samples were sent to a 3rd party laboratory for a pre-remediation evaluation. Based upon customer provided information and results of our testing equipment and laboratory analysis, SPUR determined that the most effective method to remediate the Release was using our CATAWATER product.

After customer approval, SPUR utilized the proprietary mixing guidelines to prepare the CATAWATER catalyst application. Due to the terrain and type of spill, SPUR applied the product utilizing hand spraying application to reach all areas within the release plume. SPUR agreed to maintain moisture content throughout the 28-day biocycle by applying fresh water every third day via a contracted water hauler.

Project Pictures

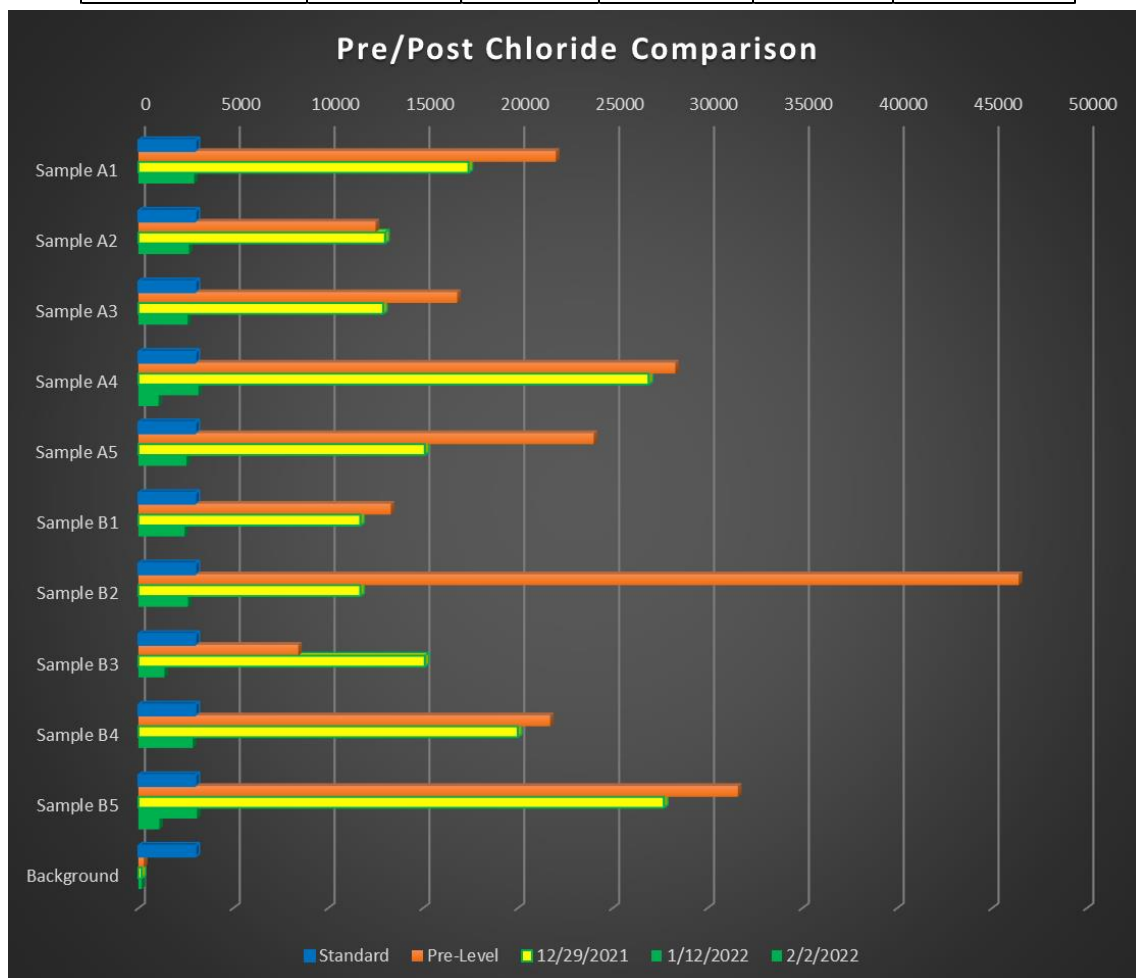




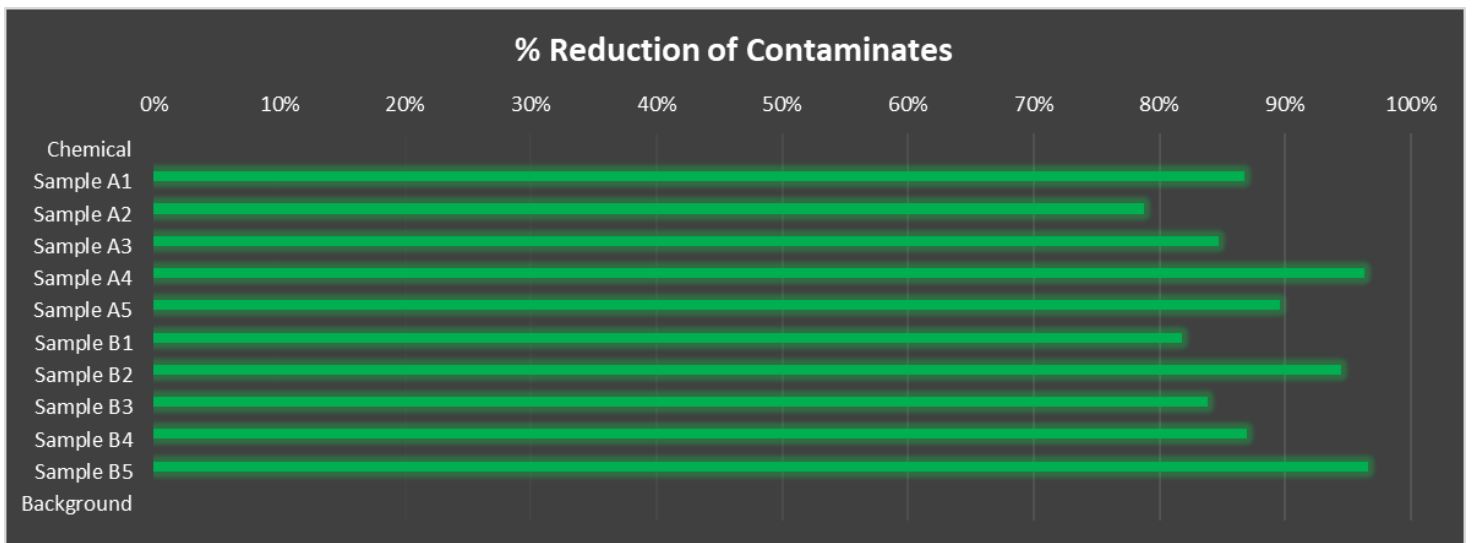
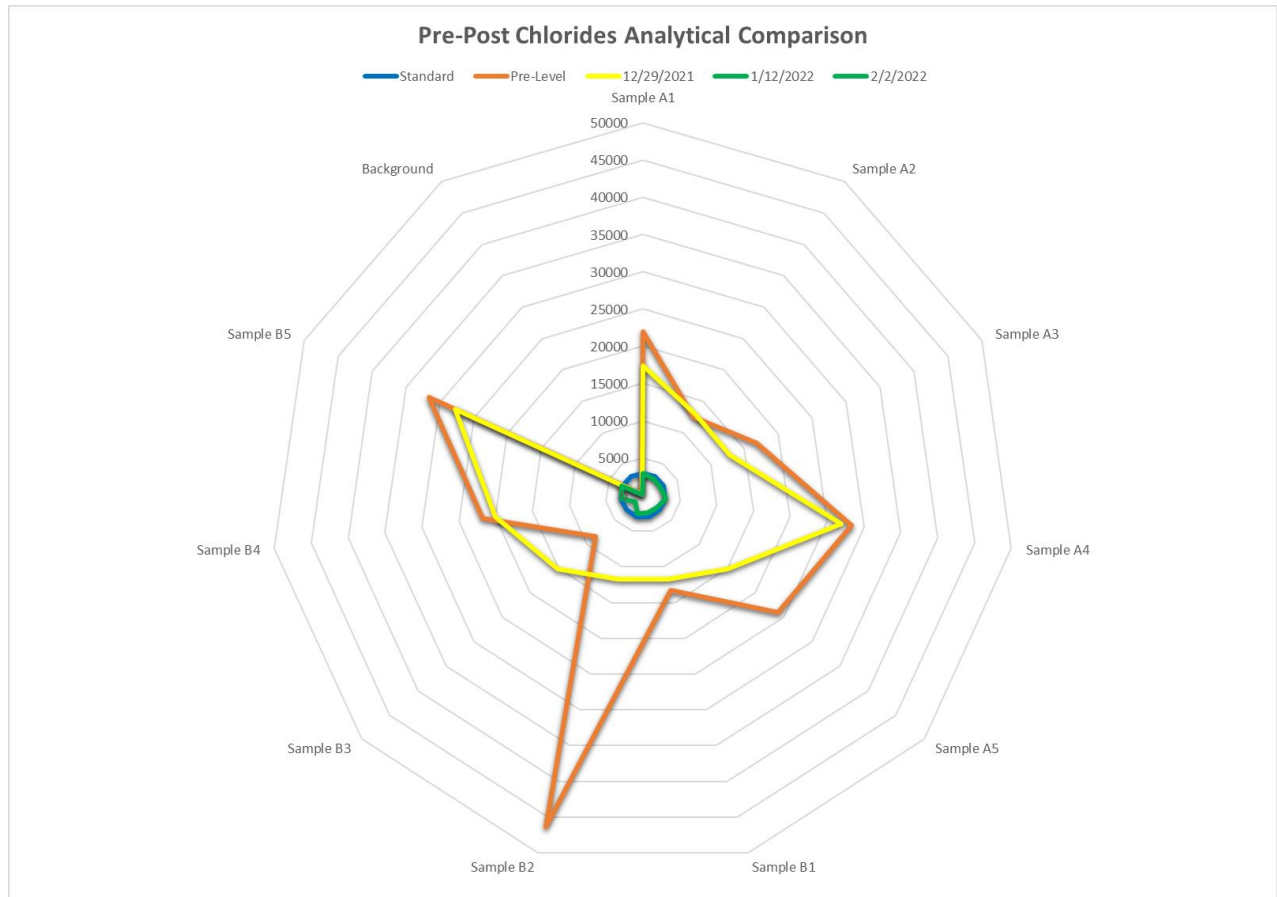
PROJECT RESULTS:

DATA AND CHARTS – POST APPLICATION - CHLORIDE RESULTS

Chlorides	Standard	Pre-Level	12/29/2021	1/12/2022	2/2/2022
Sample A1	3000	22000	17400	2930	
Sample A2	3000	12500	13000	2660	
Sample A3	3000	16800	12900	2590	
Sample A4	3000	28300	26900	3160	1060
Sample A5	3000	24000	15100	2530	
Sample B1	3000	13300	11700	2430	
Sample B2	3000	46400	11700	2610	
Sample B3	3000	8420	15100	1370	
Sample B4	3000	21700	20000	2860	
Sample B5	3000	31600	27700	3080	1100
Background	3000	276	167	167	



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FINAL ANALYSIS RESULTS

After one treatment, the laboratory and field sampling results showed an overall reduction in the level of the chlorides, but one of the two requirements for CATAWATER to be successful, moisture content > 20%, was not maintained at the location and therefore, the first biocycle was not successful. We reapplied CATAWATER and manually maintained the moisture content throughout the next biocycle. Once both the moisture content and the bioavailability were properly managed, the results of the testing validated the success of the CATAWATER Catalyst application in remediating the Produced Water release, with up to a 97% reduction in Chlorides. For this project, all post remediation samples for Chlorides are far below, with many being nearly undetectable, based upon the published TRRP standards for Residential Soils.

There are both extensive tangible and intangible gains for the environment, customer, landowner, and community. Not only are we protecting the environment, we are also being good stewards of the Earth.

CUSTOMER IMPACT BENEFIT:

The application of the CATAWATER catalyst product has proven to have a large and ongoing customer impact in relationship to cost savings, landowner interruption, waste stream minimization, paperwork & administrative reductions, and overall Corporate Social Responsibility (CSR).

Cost Savings

- Lower cost than traditional mechanical dig and haul. The catalyst application tends to be 25% lower in completed project pricing over a large application area

Landowner Interruption minimization and soil improvement

- No impact to landowner. Minimal amount of heavy haul traffic, no disturbed soil, minimizes concern over unabated areas as the catalyst will spread with future rains beyond application area, improves soil content by breaking down current barriers to water absorption

Waste Stream Minimization

- No contaminated soil to document, minimizes waste stream paperwork and audit requirements, minimizes landfill impact risk

Paperwork and Administrative Cost Reductions

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- No increase in paperwork administration or costs due to Governmental audits

Corporate Social Responsibility (CSR)

- No negative impact to the Environment
- No mass heavy haul traffic to alert resident unnecessarily
- Happy landowners
- Happy customers

ENVIRONMENTAL IMPACT BENEFIT:

The SPUR/CATAWATER team's remediation system allows our customer to remain at the center while also focusing on the environment as our main objective. The Catalyst has many proven applications that meets both goals and will change the environmental model for our customers.

- No soil or vegetation disruption – if applied early enough, no visual impact to current growth
- No additional contamination to landfill
- Enhanced future vegetation – breaks down barriers to water absorption resulting in stronger growth potential without fertilization





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SAFETY PLAN

Attached is a summary of SPUR's comprehensive safety plan, which outlines SPUR's policies and standards. The fundamentals of SPUR's Safety Plan, as they relate to this Project are as follows:

- All SPUR personnel and subcontractors have completed BEDROCK EXPLORATION & PRODUCTION Safety Orientation and will communicate to all personnel, BEDROCK EXPLORATION & PRODUCTION safety absolutes.
- SPUR promotes a drug free workplace and drug screening is performed on all employees.
- Safety will be promoted, monitored, and reported as follows:
 - Initial Safety refresher training to meet SPUR's Safety Plan
 - Daily Tail-board meetings to discuss hazards, site conditions, and safety issues for the planned work that day. One JSA, job safety analysis, report is completed daily.
 - Weekly Safety Walks and Weekly Safety Review with all employees
 - Semi-monthly Safety Review with outsourced Safety Professional
 - All SPUR employees and subcontractors will wear the appropriate personal protective equipment while at the Project location.
 - All SPUR employees and subcontractors will be certified on the equipment they are operating.
 - All SPUR employees and subcontractors will follow the appropriate safety procedures for operating equipment and the work that they are performing on the Project site.
 - All safety issues will be documented and reported immediately to BEDROCK EXPLORATION & PRODUCTION and SPUR. These issues will be discussed during the daily safety meetings.

The SPUR safety plan is available on-line at ISNetworld ID Number: 400-199782



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ENGINEERING SIGNOFF

Thank you for the opportunity to present the Project Results Report for the BEDROCK EXPLORATION & PRODUCTION – Alexander 400 Pad remediation project. We trust that our performance meets your requirements. I certify the accuracy of the data provided in this report. If you have any questions or require further information, please contact Steve Trammell.

Title: Vice President Environmental Services

Name: Steve Trammell

Date: February 10, 2022

Signature: Steve Trammell



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SPUR ENVIRONMENTAL & CATAWATER HHO INTRODUCTION

Organization

Organization Name:

Spur Environmental Services

Organization Address:

DFW & Home Office

1420 Hughie Long Rd

Cresson, TX 76035

West Texas Satellite Office

4710 SCR 1311

Odessa, Texas 79765

Organization URL: <http://www.spurenvironmental.com>

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Steve Trammell

Vice President

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strammell@spurenvironmental.com

ISNetworld ID Number: 400-199782



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PERFORMANCE CAPABILITY

FACILITY INFORMATION

SPUR is located at 1420 Hughie Long Rd. Our 23,500 sq. ft. manufacturing and warehouse facility permits us the requisite capability to effectively manage the requirements of your project in a controlled and highly organized environment. Our materials, equipment, and trained professionals remain on-call and 100% primed for any emergency or non-emergency environmental response at a moment's notice. We are fully capable and prepared to tackle any job as soon as we receive the Notice to Proceed.

SPUR also maintains a second location at 4710 SCR 1311, Odessa, Texas 79765 and is the base for all our West Texas Environmental Response requirements.

CAPABILITIES

SPUR is fully capable of performing the following activities:

- Emergency Response
- Mechanical Remediation
- In Situ Remediation
- Waste Stream Management
- Containments
- Release Response & Management
- Site Analytical
- NORM Decontamination
- Construction Program Management
- Civil and Mechanical Installation
- Materials Fabrication
- Structural Steel

CATAWATER HHO - IN SITU REMEDIATION

CATAWATER's proprietary technology is tested and utilized for in situ remediation applications for Produced Fluid (Oils & Water) releases. The in-situ remediation application has proven to speed up the remediation process to as little as 28 days after the first application is performed. In addition, the CATAWATER application has proven to reduce lease operating expense (LOE) for remediation activities as compared to not utilizing CATAWATER. CATAWATER is non-toxic and environmentally safe for air, soil and water.

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Produced Water releases have been remediated within 28 days from initial Release event with baselines sample results for chlorides of 20,000 ppm remediated to < 3,000 ppm. In addition, lab results have shown that if treated within 24 hrs. after a Produced Water release has occurred, the vegetation and trees/shrubs can survive a high chloride concentrated Release.

Oil releases, as like produced water releases, have shown a similar time frame for remediation results ranging from 30 days to 6 months. The fastest remediation time for an oil release was within 10 days after the release occurred. The same area where the oil release occurred was treated with CATAWATER five months prior to the release. Without any further treatment, the samples for TPH were tested and the levels were all below the <1 % TPH, which met the closure requirements for the regulatory body. CATAWATER is currently being tested as a pre-release agent to minimize the Environmental impacts of an actual release.

CATAWATER has also shown to eliminate salt scarring from releases within 30 days of initial application.

CATAWATER HHO – WASTEWATER – TITRATION/INJECTION

Water treatment (SWD)

CATAWATER was injected into a SWD facility gun barrel tank. The study was to see if there were any effects of dropping out suspended solids coming into the SWD versus going down hole and to see if there would be an increase of oil skimming within the process. After 28 days of the application, water samples were pulled from the SWD pipeline inlet and at the SWD injection line downstream of the pump to see if there were positive results. The analytical showed a suspended solid reduction of 90% and that the skimmed oil increased by 0.5 percent based on average 1,200 bbls/day throughput.

NORM

CATAWATER has also been injected into SWD facility gun barrel tanks. The study was conducted to see if there were any effects of dropping out BSW or to the well head tubing pressure and injection rate and to see if there would be a reduction to the NORM measured in the gun barrel. After 31 days of the application, data showed a 13% increase of water injected and a 9% drop in tubing pressure at the well head. The NORM was reduced from 80 uR/hr to 35 uR/hr in the gun barrel tank and the BSW was reduced from 7' 6" to 3' within 31 days. The analytical showed a reduction in metals, TSS, turbidity and tph levels. The skimmed oil increased by 0.4 percent based on average 1,200 bbls/day throughputs.

ATTACHMENT 1

See Attached Pre and Post Analytical Reports

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