

Appendix A: Change notice – Regulation 22

Interest holder	Tamboran B2 Pty Ltd	EMP Title	Beetaloo Sub-basin Multi-well Drilling, Hydraulic Fracturing and Well Testing Program EMP EP 98 & EP 76 (ORI10-3)		Unique EMP ID	ORI10-3	Mod #	3	Date	27 September 2023
Brief Description	Inclusion of the revised chemical risk assessment by AECOM (Appendix C) to include an assessment of sodium hypochlorite 10–30% used in well completion.									
Geospatial files included?	N/A									
Does the proposed change result in a new, or increased, or potential or actual environmental impact or risk?	If an INCREASE in the existing potential or actual environmental risk, is it provided for in the EMP?	Does the proposed change require additional mitigation measures to be included?	Has additional stakeholder engagement been conducted?	Does it require additional environmental performance standards and measurement criteria?	Does it affect compliances with Sacred Site Authority Certificates?	Does it affect current rehabilitation, weed fire, wastewater, erosion and sediment control, spill or emergency response plans?	Will the environmental outcome continue to be achieved and will the impacts and risks be managed to ALARP and acceptable?			
No. There are no new or increased environmental impacts or risks through the addition of the new chemical with all chemicals requiring a tier 1 assessment.	N/A No increased impact or risk with sufficient controls outlined in the spill management plan and wastewater management plan.	No. Existing mitigation measures are in place covering well construction and operations, spill management and wastewater management.	N/A. Additional stakeholder engagement is not required, as the use of chemicals has previously been communicated with stakeholders.	No. Environmental performance standards within the existing approved EMP are sufficient.	No. Amendment to AAPA Certificates C2022/02 and C2020/003 is not required.	Yes Appendix A to the spill management plan (Appendix F) has been updated to include the additional proposed chemical. All other plans remain valid and appropriate to cover any potential risk covered under the proposed modification, in alignment with the existing approved EMP.	Yes. There will be no material change to this activity, as expected volumes of chemicals, waste and wastewater management remain within the ranges outlined in the approved EMP. Mandatory groundwater monitoring required by the Code as outlined in <i>Table 31 Monitoring program summary</i> , will be met.			
Additional contextual information	Inclusion of the additional completion chemical sodium hypochlorite 10–30%, provides Tamboran greater flexibility around the selection of service providers for E&A well activities.									

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Current EMP text	Amended EMP text
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3.11.1 Chemical types and quantities	3.11.1 Chemical types and quantities
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Table 16 Anticipated chemical volumes use in the drilling and stimulation process	Table 16 Anticipated chemical volumes use in the drilling and stimulation process
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Material name	Typical volume	Maximum volume	Unit	Storage area	Material name	Typical volume	Maximum volume	Unit	Storage area
Acetic Acid - 60% PH control	3,000	6,000	L	Stimulation chemical storage area	Acetic Acid - 60% PH control	3,000	6,000	L	Stimulation chemical storage area
BE-9 Biocide	17,000	34,000	L	Stimulation chemical storage area	BE-9 Biocide	17,000	34,000	L	Stimulation chemical storage area
Caustic Soda Liquid pH control/ buffer	15,000	30,000	L	Stimulation chemical storage area	Caustic Soda Liquid pH control/ buffer	15,000	30,000	L	Stimulation chemical storage area
DCA-11001 Breaker Activator	5,000	10,000	L	Stimulation chemical storage area	DCA-11001 Breaker Activator	5,000	10,000	L	Stimulation chemical storage area
DCA-13002 Breaker	300	600	kg	Stimulation chemical storage area	DCA-13002 Breaker	300	600	kg	Stimulation chemical storage area
DCA-13003 Breaker	10,000	20,000	L	Stimulation chemical storage area	DCA-13003 Breaker	10,000	20,000	L	Stimulation chemical storage area
DCA-16001 Clay Stabiliser	42,000	84,000	L	Stimulation chemical storage area	DCA-16001 Clay Stabiliser	42,000	84,000	L	Stimulation chemical storage area
DCA-17001 Corrosion Inhibitor	1,000	2,000	L	Stimulation chemical storage area	DCA-17001 Corrosion Inhibitor	1,000	2,000	L	Stimulation chemical storage area
DCA-19001 Crosslinker	600	1,200	kg	Stimulation chemical storage area	DCA-19001 Crosslinker	600	1,200	kg	Stimulation chemical storage area
DCA-19002 Crosslinker	10,000	20,000	L	Stimulation chemical storage area	DCA-19002 Crosslinker	10,000	20,000	L	Stimulation chemical storage area
DCA-23001 Friction Reducer	5,000	10,000	kg	Stimulation chemical storage area	DCA-23001 Friction Reducer	5,000	10,000	kg	Stimulation chemical storage area
DCA-23003 Friction Reducer	18,000	36,000	L	Stimulation chemical storage area	DCA-23003 Friction Reducer	18,000	36,000	L	Stimulation chemical storage area
DCA-25005 Gelling Agent	35,000	70,000	kg	Stimulation chemical storage area	DCA-25005 Gelling Agent	35,000	70,000	kg	Stimulation chemical storage area
DCA-30001 Scale Inhibitor	15,000	30,000	L	Stimulation chemical storage area	DCA-30001 Scale Inhibitor	15,000	30,000	L	Stimulation chemical storage area
DCA-32002 Surfactant	15,000	30,000	L	Stimulation chemical storage area	DCA-32002 Surfactant	15,000	30,000	L	Stimulation chemical storage area
DCA-32014 Surfactant	200	400	L	Stimulation chemical storage area	DCA-32014 Surfactant	200	400	L	Stimulation chemical storage area
FE-2 Buffer	200	400	kg	Stimulation chemical storage area	FE-2 Buffer	200	400	kg	Stimulation chemical storage area
Hydrochloric Acid - 32%	50,000	150,000	L	Stimulation chemical storage area	Hydrochloric Acid - 32%	50,000	150,000	L	Stimulation chemical storage area
100 Mesh Sand- Proppant	91,000	182,000	kg	Stimulation chemical storage area	100 Mesh Sand- Proppant	91,000	182,000	kg	Stimulation chemical storage area
40/70 Sand- Proppant	1,650,000	3,300,000	kg	Stimulation chemical storage area	40/70 Sand- Proppant	1,650,000	3,300,000	kg	Stimulation chemical storage area
30/50 Sand- Proppant	610,000	1,220,000	kg	Stimulation chemical storage area	30/50 Sand- Proppant	610,000	1,220,000	kg	Stimulation chemical storage area
Alcohols, C11-14-iso-, C13-rich,ethoxylated-Surfactant	5285	10570	L	Stimulation chemical storage area	Alcohols, C11-14-iso-, C13-rich,ethoxylated-Surfactant	5285	10570	L	Stimulation chemical storage area
Sodium (C14-16) olefin sulfonate - Surfactant	4658	9316	L	Stimulation chemical storage area	Sodium (C14-16) olefin sulfonate - Surfactant	4658	9316	L	Stimulation chemical storage area
Diisobutyl glutarate - plasticiser	627	1254	L	Stimulation chemical storage area	Diisobutyl glutarate - plasticiser	627	1254	L	Stimulation chemical storage area
Diisobutyl succinate - plasticiser	209	418	L	Stimulation chemical storage area	Diisobutyl succinate - plasticiser	209	418	L	Stimulation chemical storage area
Diisobutyl adipate- plasticiser	179	358	L	Stimulation chemical storage area	Diisobutyl adipate- plasticiser	179	358	L	Stimulation chemical storage area
sodium thiosulphate- stabilising agent	4763	9527	L	Stimulation chemical storage area	sodium thiosulphate- stabilising agent	4763	9527	L	Stimulation chemical storage area

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Current EMP text						Amended EMP text							
sodium sulphate stabilising agent	913	1827	L	Stimulation chemical storage area	sodium thiosulphate-stabilising agent	4763	9527	L	Stimulation chemical storage area				
sodium sulphite stabilising agent	794	1588	L	Stimulation chemical storage area	sodium sulphate stabilising agent	913	1827	L	Stimulation chemical storage area				
Ethylene Glycol-Crosslinker	5112	10225	L	Stimulation chemical storage area	sodium sulphite stabilising agent	794	1588	L	Stimulation chemical storage area				
Choline Chloride-Claystabiliser	10301	20603	L	Stimulation chemical storage area	Ethylene Glycol-Crosslinker	5112	10225	L	Stimulation chemical storage area				
Glutaraldehyde- Biocide	14930	29859	L	Stimulation chemical storage area	Choline Chloride-Claystabiliser	10301	20603	L	Stimulation chemical storage area				
Ammonium Sulphate-Breaker	4479	8958	L	Stimulation chemical storage area	Glutaraldehyde- Biocide	14930	29859	L	Stimulation chemical storage area				
Polyacrylamide- Friction reducer	4479	8958	L	Stimulation chemical storage area	Ammonium Sulphate-Breaker	4479	8958	L	Stimulation chemical storage area				
Sodium polyacrylate-gelling agent	746	1493	L	Stimulation chemical storage area	Polyacrylamide- Friction reducer	4479	8958	L	Stimulation chemical storage area				
Sodium bisulfite- stabiliser	149	299	L	Stimulation chemical storage area	Sodium polyacrylate-gelling agent	746	1493	L	Stimulation chemical storage area				
Alkyl Alcohol- surfactant	149	299	L	Stimulation chemical storage area	Sodium bisulfite- stabiliser	149	299	L	Stimulation chemical storage area				
2-Propenoic acid, homopolymer, ammonium salt- biocide	149	299	L	Stimulation chemical storage area	Alkyl Alcohol- surfactant	149	299	L	Stimulation chemical storage area				
Potassium persulfate-braker	149	299	L	Stimulation chemical storage area	2-Propenoic acid, homopolymer, ammonium salt- biocide	149	299	L	Stimulation chemical storage area				
2-Ethoxy-naphthalene-surfactant	149	299	L	Stimulation chemical storage area	Potassium persulfate-braker	149	299	L	Stimulation chemical storage area				
Sodium Gluconate-stabiliser	8576	17152	L	Stimulation chemical storage area	2-Ethoxy-naphthalene-surfactant	149	299	L	Stimulation chemical storage area				
Boric -Crosslinker	4288	8576	L	Stimulation chemical storage area	Sodium Gluconate-stabiliser	8576	17152	L	Stimulation chemical storage area				
Potassium Hydroxide- pH control	10745	21491	L	Stimulation chemical storage area	Boric -Crosslinker	4288	8576	L	Stimulation chemical storage area				
Mannanase- Cross linker	2	4	L	Stimulation chemical storage area	Potassium Hydroxide- pH control	10745	21491	L	Stimulation chemical storage area				
Ammonium Persulphate-breaker	7451	14902	L	Stimulation chemical storage area	Mannanase- Cross linker	2	4	L	Stimulation chemical storage area				
Talc- buffer	384	769	L	Stimulation chemical storage area	Ammonium Persulphate-breaker	7451	14902	L	Stimulation chemical storage area				
Sodium Bromate- breaker	50441	100881	L	Stimulation chemical storage area	Talc- buffer	384	769	L	Stimulation chemical storage area				
Hepta sodium phosphonate- Emulsifier	3176	6351	L	Stimulation chemical storage area	Sodium Bromate- breaker	50441	100881	L	Stimulation chemical storage area				
DISTILLATES, HYDROTREATED LIGHT-friction reducer	54231	108462	L	Stimulation chemical storage area	Hepta sodium phosphonate- Emulsifier	3176	6351	L	Stimulation chemical storage area				
Guar Gum- Viscosity regulator	15141	30282	L	Stimulation chemical storage area	DISTILLATES, HYDROTREATED LIGHT-friction reducer	54231	108462	L	Stimulation chemical storage area				
Polyoxyethylene nonylphenol ether-surfactant	4466	8933	L	Stimulation chemical storage area	Guar Gum- Viscosity regulator	15141	30282	L	Stimulation chemical storage area				
Quaternary ammonium compounds, bis(hydrogenated tallow	4466	8933	L	Stimulation chemical storage area	Polyoxyethylene nonylphenol ether-surfactant	4466	8933	L	Stimulation chemical storage area				

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alkyl)dimethyl, salts with bentonite- biocide					Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite- biocide	4466	8933	L	Stimulation chemical storage area	
1,6-Hexanediol- cross linker	447	893	L	Stimulation chemical storage area	1,6-Hexanediol- cross linker	447	893	L	Stimulation chemical storage area	
Quartz or Organophilic phyllosilicate- proppant	1084	2167	L	Stimulation chemical storage area	Quartz or Organophilic phyllosilicate- proppant	1084	2167	L	Stimulation chemical storage area	
HydroChloric Acid- pH control	44715	89430	L	Stimulation chemical storage area	HydroChloric Acid- pH control	44715	89430	L	Stimulation chemical storage area	
N-Benzyl-Alkylpyridinium Chloride- pH control	28	57	L	Stimulation chemical storage area	N-Benzyl-Alkylpyridinium Chloride- pH control	28	57	L	Stimulation chemical storage area	
Formic Acid- corrosion inhibitor	38	76	L	Stimulation chemical storage area	Formic Acid- corrosion inhibitor	38	76	L	Stimulation chemical storage area	
Sodium erythorbate- scaler prohibitor	334	668	L	Stimulation chemical storage area	Sodium erythorbate- scaler prohibitor	334	668	L	Stimulation chemical storage area	
Citric Acid- pH control	15878	31756	L	Stimulation chemical storage area	Citric Acid- pH control	15878	31756	L	Stimulation chemical storage area	
Acetic Acid- pH control	15878	31756	L	Stimulation chemical storage area	Acetic Acid- pH control	15878	31756	L	Stimulation chemical storage area	
Isopropanol- clay management	83	167	L	Stimulation chemical storage area	Isopropanol- clay management	83	167	L	Stimulation chemical storage area	
Ethoxylated C12-C16 Alcohol - surfactant	57	114	L	Stimulation chemical storage area	Ethoxylated C12-C16 Alcohol - surfactant	57	114	L	Stimulation chemical storage area	
Ethoxylated Decanol - surfactant	19	38	L	Stimulation chemical storage area	Ethoxylated Decanol - surfactant	19	38	L	Stimulation chemical storage area	
Cinnamaldehyde- biocide	57	114	L	Stimulation chemical storage area	Cinnamaldehyde- biocide	57	114	L	Stimulation chemical storage area	
Ethoxylated Tallow Alkyl Amine - surfactant	9	19	L	Stimulation chemical storage area	Ethoxylated Tallow Alkyl Amine - surfactant	9	19	L	Stimulation chemical storage area	
Methanol- corrosion inhibitor	2	4	L	Stimulation chemical storage area	Methanol- corrosion inhibitor	2	4	L	Stimulation chemical storage area	
Polyacrylamide - friction reducer	49093	98186	L	Stimulation chemical storage area	Polyacrylamide - friction reducer	49093	98186	L	Stimulation chemical storage area	
Polyethylene glycol trimethylnonyl ether - clay manager	87	173	L	Stimulation chemical storage area	Polyethylene glycol trimethylnonyl ether - clay manager	87	173	L	Stimulation chemical storage area	
Water in Additive- stabiliser	66804	133607	L	Stimulation chemical storage area	Water in Additive- stabiliser	66804	133607	L	Stimulation chemical storage area	
Potassium Sorbate Food Grade- corrosion inhibitor	14	29	L	Stimulation chemical storage area	Potassium Sorbate Food Grade- corrosion inhibitor	14	29	L	Stimulation chemical storage area	
Mannanase (Mannan endo-1,4-beta-mannosidase)- cross linker	2	4	L	Stimulation chemical storage area	Mannanase (Mannan endo-1,4-beta-mannosidase)- cross linker	2	4	L	Stimulation chemical storage area	
Nonoxynol-9- surfactant	9	19	kg	Stimulation chemical storage area	Nonoxynol-9- surfactant	9	19	kg	Stimulation chemical storage area	
2-Ethylhexanol PO/EO polymer- stabiliser	9	19	kg	Stimulation chemical storage area	2-Ethylhexanol PO/EO polymer- stabiliser	9	19	kg	Stimulation chemical storage area	
Corn Oil- friction reducer	662	1325	kg	Stimulation chemical storage area	Corn Oil- friction reducer	662	1325	kg	Stimulation chemical storage area	
Sodium Chloride- weighting agent	15,000	30,000	kg	Completion chemical storage area	Sodium hypochlorite	10,000	30,000	L	Completion chemical storage area	
ALDACIDE G Biocide	500	1,000	L	Completion chemical storage area						

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OXYGON Oxygen scavenger	100	200	kg	Completion chemical storage area	Sodium Chloride-weighting agent	15,000	30,000	kg	Completion chemical storage area				
BARACOR 100 corrosion inhibitor	2,000	4,000	L	Completion chemical storage area	ALDACIDE G Biocide	500	1,000	L	Completion chemical storage area				
CON-DET wetting agent	50	100	kg	Drilling chemical storage area	OXYGON Oxygen scavenger	100	200	kg	Completion chemical storage area				
SAPP- sodium Acid Phosphate cement treatment	50	100	kg	Drilling chemical storage area	BARACOR 100 corrosion inhibitor	2,000	4,000	L	Completion chemical storage area				
Bentonite- lubricant	3,000	6,000	kg	Drilling chemical storage area	CON-DET wetting agent	50	100	kg	Drilling chemical storage area				
Caustic Soda-pH control	1,400	2,800	kg	Drilling chemical storage area	SAPP- sodium Acid Phosphate cement treatment	50	100	kg	Drilling chemical storage area				
EZ MUD DP or EZ MUD Liquid- drilling mud	2000	4,000	kg	Drilling chemical storage area	Bentonite- lubricant	3,000	6,000	kg	Drilling chemical storage area				
ALDACIDE G Biocide	336	672	kg	Drilling chemical storage area	Caustic Soda-pH control	1,400	2,800	kg	Drilling chemical storage area				
STOPPIT Loss of circulation material	1,000	2,000	kg	Drilling chemical storage area	EZ MUD DP or EZ MUD Liquid- drilling mud	2000	4,000	kg	Drilling chemical storage area				
Soda Ash- drill mud conditioner	350	700	kg	Drilling chemical storage area	ALDACIDE G Biocide	336	672	kg	Drilling chemical storage area				
BARACOR 100 Corrosion inhibitor	250	500	kg	Drilling chemical storage area	STOPPIT Loss of circulation material	1,000	2,000	kg	Drilling chemical storage area				
Sodium Chloride (Flossy Salt)- weighting agent and formation inhibitor	96,000	192,000	kg	Drilling chemical storage area	Soda Ash- drill mud conditioner	350	700	kg	Drilling chemical storage area				
Barite- weighting agent	500	1,000	kg	Drilling chemical storage area	BARACOR 100 Corrosion inhibitor	250	500	kg	Drilling chemical storage area				
BARACARB loss of circulation material	500	1,000	kg	Drilling chemical storage area	Sodium Chloride (Flossy Salt)- weighting agent and formation inhibitor	96,000	192,000	kg	Drilling chemical storage area				
Citric Acid- pH control	500	1,000	kg	Drilling chemical storage area	Barite- weighting agent	500	1,000	kg	Drilling chemical storage area				
BARADEFOAM HP Drilling fluid/foam	500	1,000	kg	Drilling chemical storage area	BARACARB loss of circulation material	500	1,000	kg	Drilling chemical storage area				
Sodium Bicarbonate- pH buffer	500	1,000	kg	Drilling chemical storage area	Citric Acid- pH control	500	1,000	kg	Drilling chemical storage area				
PERFORMATROL- polymer fluid system	500	1,000	kg	Drilling chemical storage area	BARADEFOAM HP Drilling fluid/foam	500	1,000	kg	Drilling chemical storage area				
SOURSCAV- mud additive treat H2S contamination	500	1,000	kg	Drilling chemical storage area	Sodium Bicarbonate- pH buffer	500	1,000	kg	Drilling chemical storage area				
DRIL-N-SLIDE- Casing lubricant	500	1,000	kg	Drilling chemical storage area	PERFORMATROL- polymer fluid system	500	1,000	kg	Drilling chemical storage area				
STEELSEAL- corrosion inhibitor	500	1,000	kg	Drilling chemical storage area	SOURSCAV- mud additive treat H2S contamination	500	1,000	kg	Drilling chemical storage area				
BARAZAN D or BARAZAN D PLUS- viscosity increaser	4,150	8,300	kg	Drilling chemical storage area	DRIL-N-SLIDE- Casing lubricant	500	1,000	kg	Drilling chemical storage area				
PAC L Loss of circulation material	2,300	4,600	kg	Drilling chemical storage area	STEELSEAL- corrosion inhibitor	500	1,000	kg	Drilling chemical storage area				
Potassium Chloride-weighting agent and formation inhibitor	22,500	45,000	kg	Drilling chemical storage area	BARAZAN D or BARAZAN D PLUS- viscosity increaser	4,150	8,300	kg	Drilling chemical storage area				
					PAC L Loss of circulation material	2,300	4,600	kg	Drilling chemical storage area				

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GEM CP/GP Shale stabiliser	500	1,000	kg	Drilling chemical storage area	Potassium Chloride-weighting agent and formation inhibitor	22,500	45,000	kg	Drilling chemical storage area				
QUIK-FREE – drilling additive	500	1,000	kg	Drilling chemical storage area	GEM CP/GP Shale stabiliser	500	1,000	kg	Drilling chemical storage area				
BAROFIBRE, BAROFIBRE Superfine and BAROFIBRE COARSE Loss of circulation material	500	1,000	kg	Drilling chemical storage area	QUIK-FREE – drilling additive	500	1,000	kg	Drilling chemical storage area				
BaraBlend-657 Loss of circulation material	500	1,000	kg	Drilling chemical storage area	BAROFIBRE, BAROFIBRE Superfine and BAROFIBRE COARSE Loss of circulation material	500	1,000	kg	Drilling chemical storage area				
N-DRIL HT PLUS filtration control additive	500	1,000	kg	Drilling chemical storage area	BaraBlend-657 Loss of circulation material	500	1,000	kg	Drilling chemical storage area				
DEXTRID LTE filtration control additive	4,600	13,800	kg	Drilling chemical storage area	N-DRIL HT PLUS filtration control additive	500	1,000	kg	Drilling chemical storage area				
BARABUF pH buffer	500	1,000	kg	Drilling chemical storage area	DEXTRID LTE filtration control additive	4,600	13,800	kg	Drilling chemical storage area				
BORE-HIB shale stabiliser	500	1,000	kg	Drilling chemical storage area	BARABUF pH buffer	500	1,000	kg	Drilling chemical storage area				
BDF 933 or BaraLube W-933 drilling lubricant	864	1,728	kg	Drilling chemical storage area	BORE-HIB shale stabiliser	500	1,000	kg	Drilling chemical storage area				
BAROLIFT sweeping agent	500	1,000	kg	Drilling chemical storage area	BDF 933 or BaraLube W-933 drilling lubricant	864	1,728	kg	Drilling chemical storage area				
OXYGON Oxygen scavenger	500	1,000	kg	Drilling chemical storage area	BAROLIFT sweeping agent	500	1,000	kg	Drilling chemical storage area				
ENVIRO-THIN filtration control additive	500	1,000	kg	Drilling chemical storage area	OXYGON Oxygen scavenger	500	1,000	kg	Drilling chemical storage area				
Lime pH buffer	500	1,000	kg	Drilling chemical storage area	ENVIRO-THIN filtration control additive	500	1,000	kg	Drilling chemical storage area				
BDF 677 Clay stabiliser	4,770	9,540	kg	Drilling chemical storage area	Lime pH buffer	500	1,000	kg	Drilling chemical storage area				
BDF 988 Clay stabiliser	3,390	6,780	kg	Drilling chemical storage area	BDF 677 Clay stabiliser	4,770	9,540	kg	Drilling chemical storage area				
SARALINE 185V- Synthetic based mud	299,800	599,600	kg	Drilling chemical storage area	BDF 988 Clay stabiliser	3,390	6,780	kg	Drilling chemical storage area				
NOVATEC P emulsifier for SBM	13,110	26,220	kg	Drilling chemical storage area	SARALINE 185V- Synthetic based mud	299,800	599,600	kg	Drilling chemical storage area				
NOVATEC S emulsifier SBM	5700	11,400	kg	Drilling chemical storage area	NOVATEC P emulsifier for SBM	13,110	26,220	kg	Drilling chemical storage area				
Calcium Chloride weighting agent SBM	37,000	74,000	kg	Drilling chemical storage area	NOVATEC S emulsifier SBM	5700	11,400	kg	Drilling chemical storage area				
VG SUPREME clay viscosifier SBM	11,350	22,700	kg	Drilling chemical storage area	Calcium Chloride weighting agent SBM	37,000	74,000	kg	Drilling chemical storage area				
M-I BAR weighting agent SBM	193,500	169,500	kg	Drilling chemical storage area	VG SUPREME clay viscosifier SBM	11,350	22,700	kg	Drilling chemical storage area				
NOVATEC F emulsifier SBM	3,610	7,220	kg	Drilling chemical storage area	M-I BAR weighting agent SBM	193,500	169,500	kg	Drilling chemical storage area				
NOVATEC transferred emulsifier SBM	1770	1770	kg	Drilling chemical storage area	NOVATEC F emulsifier SBM	3,610	7,220	kg	Drilling chemical storage area				
Waste drilling fluids	2,500	2,500	m ³	Drilling mud sump	NOVATEC transferred emulsifier SBM	1770	1770	kg	Drilling chemical storage area				
Completion fluids	1.4	1.4	ML	Drilling mud sump/on-site tank									
Condensate	160	320	KL	Condensate storage area									

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Current EMP text					Amended EMP text				
Diesel	250	500	KL	Diesel storage tanks	Waste drilling fluids	2,500	2,500	m ³	Drilling mud sump
Hydraulic oil	1,000	3,000	L	Workshop	Completion fluids	1.4	1.4	ML	Drilling mud sump/on-site tank
Engine oil	1,000	3,000	L	Workshop	Condensate	160	320	KL	Condensate storage area
Degreasers	100	300	L	Workshop	Diesel	250	500	KL	Diesel storage tanks
Flowback	<10	13.8	ML	Flowback tanks	Hydraulic oil	1,000	3,000	L	Workshop
					Engine oil	1,000	3,000	L	Workshop
					Degreasers	100	300	L	Workshop
					Flowback	<10	13.8	ML	Flowback tanks

Appendix F Spill Management Plan

Spill Management Plan Appendix A Chemical volumes per well and storage areas (based on maximum 3 wells per pad)

Material name	Typical volume	Maximum volume	Unit	Storage area
Acetic Acid - 60% PH control	3,000	6,000	L	Stimulation chemical storage area
BE-9 Biocide	17,000	34,000	L	Stimulation chemical storage area
Caustic Soda Liquid pH control/ buffer	15,000	30,000	L	Stimulation chemical storage area
DCA-11001 Breaker Activator	5,000	10,000	L	Stimulation chemical storage area
DCA-13002 Breaker	300	600	kg	Stimulation chemical storage area
DCA-13003 Breaker	10,000	20,000	L	Stimulation chemical storage area
DCA-16001 Clay Stabiliser	42,000	84,000	L	Stimulation chemical storage area
DCA-17001 Corrosion Inhibitor	1,000	2,000	L	Stimulation chemical storage area
DCA-19001 Crosslinker	600	1,200	kg	Stimulation chemical storage area
DCA-19002 Crosslinker	10,000	20,000	L	Stimulation chemical storage area
DCA-23001 Friction Reducer	5,000	10,000	kg	Stimulation chemical storage area
DCA-23003 Friction Reducer	18,000	36,000	L	Stimulation chemical storage area
DCA-25005 Gelling Agent	35,000	70,000	kg	Stimulation chemical storage area
DCA-30001 Scale Inhibitor	15,000	30,000	L	Stimulation chemical storage area
DCA-32002 Surfactant	15,000	30,000	L	Stimulation chemical storage area
DCA-32014 Surfactant	200	400	L	Stimulation chemical storage area
FE-2 Buffer	200	400	kg	Stimulation chemical storage area
Hydrochloric Acid - 32%	50,000	150,000	L	Stimulation chemical storage area
100 Mesh Sand- Proppant	91,000	182,000	kg	Stimulation chemical storage area
40/70 Sand- Proppant	1,650,000	3,300,000	kg	Stimulation chemical storage area
30/50 Sand- Proppant	610,000	1,220,000	kg	Stimulation chemical storage area

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Current EMP text						Amended EMP text							
Alcohols, C11-14-iso-, C13-rich,ethoxylated-Surfactant	5285	10570	L	Stimulation chemical storage area	Alcohols, C11-14-iso-, C13-rich,ethoxylated-Surfactant	5285	10570	L	Stimulation chemical storage area				
Sodium (C14-16) olefin sulfonate - Surfactant	4658	9316	L	Stimulation chemical storage area	Sodium (C14-16) olefin sulfonate - Surfactant	4658	9316	L	Stimulation chemical storage area				
Diisobutyl glutarate - plasticiser	627	1254	L	Stimulation chemical storage area	Diisobutyl glutarate - plasticiser	627	1254	L	Stimulation chemical storage area				
Diisobutyl succinate - plasticiser	209	418	L	Stimulation chemical storage area	Diisobutyl succinate - plasticiser	209	418	L	Stimulation chemical storage area				
Diisobutyl adipate-plasticiser	179	358	L	Stimulation chemical storage area	Diisobutyl adipate-plasticiser	179	358	L	Stimulation chemical storage area				
sodium thiosulphate-stabilising agent	4763	9527	L	Stimulation chemical storage area	sodium thiosulphate-stabilising agent	4763	9527	L	Stimulation chemical storage area				
sodium sulphate stabilising agent	913	1827	L	Stimulation chemical storage area	sodium sulphate stabilising agent	913	1827	L	Stimulation chemical storage area				
sodium sulphite stabilising agent	794	1588	L	Stimulation chemical storage area	sodium sulphite stabilising agent	794	1588	L	Stimulation chemical storage area				
Ethylene Glycol-Crosslinker	5112	10225	L	Stimulation chemical storage area	Ethylene Glycol-Crosslinker	5112	10225	L	Stimulation chemical storage area				
Choline Chloride-Claystabiliser	10301	20603	L	Stimulation chemical storage area	Choline Chloride-Claystabiliser	10301	20603	L	Stimulation chemical storage area				
Glutaraldehyde- Biocide	14930	29859	L	Stimulation chemical storage area	Glutaraldehyde- Biocide	14930	29859	L	Stimulation chemical storage area				
Ammonium Sulphate-Breaker	4479	8958	L	Stimulation chemical storage area	Ammonium Sulphate-Breaker	4479	8958	L	Stimulation chemical storage area				
Polyacrylamide- Friction reducer	4479	8958	L	Stimulation chemical storage area	Polyacrylamide- Friction reducer	4479	8958	L	Stimulation chemical storage area				
Sodium polyacrylate-gelling agent	746	1493	L	Stimulation chemical storage area	Sodium polyacrylate-gelling agent	746	1493	L	Stimulation chemical storage area				
Sodium bisulfite- stabiliser	149	299	L	Stimulation chemical storage area	Sodium bisulfite- stabiliser	149	299	L	Stimulation chemical storage area				
Alkyl Alcohol- surfactant	149	299	L	Stimulation chemical storage area	Alkyl Alcohol- surfactant	149	299	L	Stimulation chemical storage area				
2-Propenoic acid, homopolymer, ammonium salt- biocide	149	299	L	Stimulation chemical storage area	2-Propenoic acid, homopolymer, ammonium salt- biocide	149	299	L	Stimulation chemical storage area				
Potassium persulfate-braker	149	299	L	Stimulation chemical storage area	Potassium persulfate-braker	149	299	L	Stimulation chemical storage area				
2-Ethoxy-naphthalene-surfactant	149	299	L	Stimulation chemical storage area	2-Ethoxy-naphthalene-surfactant	149	299	L	Stimulation chemical storage area				
Sodium Gluconate-stabiliser	8576	17152	L	Stimulation chemical storage area	Sodium Gluconate-stabiliser	8576	17152	L	Stimulation chemical storage area				
Boric -Crosslinker	4288	8576	L	Stimulation chemical storage area	Boric -Crosslinker	4288	8576	L	Stimulation chemical storage area				
Potassium Hydroxide- pH control	10745	21491	L	Stimulation chemical storage area	Potassium Hydroxide- pH control	10745	21491	L	Stimulation chemical storage area				
Mannanase- Cross linker	2	4	L	Stimulation chemical storage area	Mannanase- Cross linker	2	4	L	Stimulation chemical storage area				
Ammonium Persulphate-breaker	7451	14902	L	Stimulation chemical storage area	Ammonium Persulphate-breaker	7451	14902	L	Stimulation chemical storage area				
Talc- buffer	384	769	L	Stimulation chemical storage area	Talc- buffer	384	769	L	Stimulation chemical storage area				
Sodium Bromate- breaker	50441	100881	L	Stimulation chemical storage area	Sodium Bromate- breaker	50441	100881	L	Stimulation chemical storage area				

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Current EMP text						Amended EMP text							
Hepta sodium phosphonate- Emulsifier	3176	6351	L	Stimulation chemical storage area	Hepta sodium phosphonate- Emulsifier	3176	6351	L	Stimulation chemical storage area				
DISTILLATES, HYDROTREATED LIGHT-friction reducer	54231	108462	L	Stimulation chemical storage area	DISTILLATES, HYDROTREATED LIGHT-friction reducer	54231	108462	L	Stimulation chemical storage area				
Guar Gum- Viscosity regulator	15141	30282	L	Stimulation chemical storage area	Guar Gum- Viscosity regulator	15141	30282	L	Stimulation chemical storage area				
Polyoxyethylene nonylphenol ether-surfactant	4466	8933	L	Stimulation chemical storage area	Polyoxyethylene nonylphenol ether-surfactant	4466	8933	L	Stimulation chemical storage area				
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite- biocide	4466	8933	L	Stimulation chemical storage area	Quaternary ammonium compounds, bis(hydrogenated tallow alkyl)dimethyl, salts with bentonite- biocide	4466	8933	L	Stimulation chemical storage area				
1,6-Hexanediol- cross linker	447	893	L	Stimulation chemical storage area	1,6-Hexanediol- cross linker	447	893	L	Stimulation chemical storage area				
Quartz or Organophilic phyllosilicate- proppant	1084	2167	L	Stimulation chemical storage area	Quartz or Organophilic phyllosilicate- proppant	1084	2167	L	Stimulation chemical storage area				
HydroChloric Acid- pH control	44715	89430	L	Stimulation chemical storage area	HydroChloric Acid- pH control	44715	89430	L	Stimulation chemical storage area				
N-Benzyl-Alkylpyridinium Chloride- pH control	28	57	L	Stimulation chemical storage area	N-Benzyl-Alkylpyridinium Chloride- pH control	28	57	L	Stimulation chemical storage area				
Formic Acid- corrosion inhibitor	38	76	L	Stimulation chemical storage area	Formic Acid- corrosion inhibitor	38	76	L	Stimulation chemical storage area				
Sodium erythorbate- scaler prohibitor	334	668	L	Stimulation chemical storage area	Sodium erythorbate- scaler prohibitor	334	668	L	Stimulation chemical storage area				
Citric Acid- pH control	15878	31756	L	Stimulation chemical storage area	Citric Acid- pH control	15878	31756	L	Stimulation chemical storage area				
Acetic Acid- pH control	15878	31756	L	Stimulation chemical storage area	Acetic Acid- pH control	15878	31756	L	Stimulation chemical storage area				
Isopropanol- clay management	83	167	L	Stimulation chemical storage area	Isopropanol- clay management	83	167	L	Stimulation chemical storage area				
Ethoxylated C12-C16 Alcohol - surfactant	57	114	L	Stimulation chemical storage area	Ethoxylated C12-C16 Alcohol - surfactant	57	114	L	Stimulation chemical storage area				
Ethoxylated Decanol - surfactant	19	38	L	Stimulation chemical storage area	Ethoxylated Decanol - surfactant	19	38	L	Stimulation chemical storage area				
Cinnamaldehyde- biocide	57	114	L	Stimulation chemical storage area	Cinnamaldehyde- biocide	57	114	L	Stimulation chemical storage area				
Ethoxylated Tallow Alkyl Amine - surfactant	9	19	L	Stimulation chemical storage area	Ethoxylated Tallow Alkyl Amine - surfactant	9	19	L	Stimulation chemical storage area				
Methanol- corrosion inhibitor	2	4	L	Stimulation chemical storage area	Methanol- corrosion inhibitor	2	4	L	Stimulation chemical storage area				
Polyacrylamide - friction reducer	49093	98186	L	Stimulation chemical storage area	Polyacrylamide - friction reducer	49093	98186	L	Stimulation chemical storage area				
Polyethylene glycol trimethylnonyl ether - clay manager	87	173	L	Stimulation chemical storage area	Polyethylene glycol trimethylnonyl ether - clay manager	87	173	L	Stimulation chemical storage area				
Water in Additive-stabiliser	66804	133607	L	Stimulation chemical storage area	Water in Additive-stabiliser	66804	133607	L	Stimulation chemical storage area				

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Current EMP text					Amended EMP text								
Potassium Sorbate Food Grade- corrosion inhibitor	14	29	L	Stimulation chemical storage area	Potassium Sorbate Food Grade- corrosion inhibitor	14	29	L	Stimulation chemical storage area				
Mannanase (Mannan endo-1,4-beta-mannosidase)- cross linker	2	4	L	Stimulation chemical storage area	Mannanase (Mannan endo-1,4-beta-mannosidase)- cross linker	2	4	L	Stimulation chemical storage area				
Nonoxynol-9- surfactant	9	19	L	Stimulation chemical storage area	Nonoxynol-9- surfactant	9	19	L	Stimulation chemical storage area				
2-Ethylhexanol PO/EO polymer- stabiliser	9	19	L	Stimulation chemical storage area	2-Ethylhexanol PO/EO polymer- stabiliser	9	19	L	Stimulation chemical storage area				
Corn Oil- friction reducer	662	1325	L	Stimulation chemical storage area	Corn Oil- friction reducer	662	1325	L	Stimulation chemical storage area				
Sodium Chloride- weighting agent	15,000	30,000	kg	Completion chemical storage area	Sodium hypochlorite	10,000	30,000	L	Completion chemical storage area				
ALDACIDE G Biocide	500	1,000	L	Completion chemical storage area	Sodium Chloride- weighting agent	15,000	30,000	kg	Completion chemical storage area				
OXYGON Oxygen scavenger	100	200	kg	Completion chemical storage area	ALDACIDE G Biocide	500	1,000	L	Completion chemical storage area				
BARACOR 100 corrosion inhibitor	2,000	4,000	L	Completion chemical storage area	OXYGON Oxygen scavenger	100	200	kg	Completion chemical storage area				
CON-DET wetting agent	50	100	kg	Drilling chemical storage area	BARACOR 100 corrosion inhibitor	2,000	4,000	L	Completion chemical storage area				
SAPP- sodium Acid Phosphate cement treatment	50	100	kg	Drilling chemical storage area	CON-DET wetting agent	50	100	kg	Drilling chemical storage area				
Bentonite- lubricant	3,000	6,000	kg	Drilling chemical storage area	SAPP- sodium Acid Phosphate cement treatment	50	100	kg	Drilling chemical storage area				
Caustic Soda-pH control	1,400	2,800	kg	Drilling chemical storage area	Bentonite- lubricant	3,000	6,000	kg	Drilling chemical storage area				
EZ MUD DP or EZ MUD Liquid- drilling mud	2000	4,000	kg	Drilling chemical storage area	Caustic Soda-pH control	1,400	2,800	kg	Drilling chemical storage area				
ALDACIDE G Biocide	336	672	kg	Drilling chemical storage area	EZ MUD DP or EZ MUD Liquid- drilling mud	2000	4,000	kg	Drilling chemical storage area				
STOPPIT Loss of circulation material	1,000	2,000	kg	Drilling chemical storage area	ALDACIDE G Biocide	336	672	kg	Drilling chemical storage area				
Soda Ash- drill mud conditioner	350	700	kg	Drilling chemical storage area	STOPPIT Loss of circulation material	1,000	2,000	kg	Drilling chemical storage area				
BARACOR 100 Corrosion inhibitor	250	500	kg	Drilling chemical storage area	Soda Ash- drill mud conditioner	350	700	kg	Drilling chemical storage area				
Sodium Chloride (Flossy Salt)- weighting agent and formation inhibitor	96,000	192,000	kg	Drilling chemical storage area	BARACOR 100 Corrosion inhibitor	250	500	kg	Drilling chemical storage area				
Barite- weighting agent	500	1,000	kg	Drilling chemical storage area	Sodium Chloride (Flossy Salt)- weighting agent and formation inhibitor	96,000	192,000	kg	Drilling chemical storage area				
BARACARB loss of circulation material	500	1,000	kg	Drilling chemical storage area	Barite- weighting agent	500	1,000	kg	Drilling chemical storage area				
Citric Acid- pH control	500	1,000	kg	Drilling chemical storage area	BARACARB loss of circulation material	500	1,000	kg	Drilling chemical storage area				
BARADEFOAM HP Drilling fluid/foam	500	1,000	kg	Drilling chemical storage area	Citric Acid- pH control	500	1,000	kg	Drilling chemical storage area				
Sodium Bicarbonate- pH buffer	500	1,000	kg	Drilling chemical storage area	BARADEFOAM HP Drilling fluid/foam	500	1,000	kg	Drilling chemical storage area				
PERFORMATROL- polymer fluid system	500	1,000	kg	Drilling chemical storage area	Sodium Bicarbonate- pH buffer	500	1,000	kg	Drilling chemical storage area				
					PERFORMATROL- polymer fluid system	500	1,000	kg	Drilling chemical storage area				

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Current EMP text						Amended EMP text						
SOURSCAV- mud additive treat H2S contamination	500	1,000	kg	Drilling chemical storage area		SOURSCAV- mud additive treat H2S contamination	500	1,000	kg	Drilling chemical storage area		
DRIL-N-SLIDE- Casing lubricant	500	1,000	kg	Drilling chemical storage area		DRIL-N-SLIDE- Casing lubricant	500	1,000	kg	Drilling chemical storage area		
STEELSEAL- corrosion inhibitor	500	1,000	kg	Drilling chemical storage area		STEELSEAL- corrosion inhibitor	500	1,000	kg	Drilling chemical storage area		
BARAZAN D or BARAZAN D PLUS- viscosity increaser	4,150	8,300	kg	Drilling chemical storage area		BARAZAN D or BARAZAN D PLUS- viscosity increaser	4,150	8,300	kg	Drilling chemical storage area		
PAC L Loss of circulation material	2,300	4,600	kg	Drilling chemical storage area		PAC L Loss of circulation material	2,300	4,600	kg	Drilling chemical storage area		
Potassium Chloride-weighting agent and formation inhibitor	22,500	45,000	kg	Drilling chemical storage area		Potassium Chloride-weighting agent and formation inhibitor	22,500	45,000	kg	Drilling chemical storage area		
GEM CP/GP Shale stabiliser	500	1,000	kg	Drilling chemical storage area		GEM CP/GP Shale stabiliser	500	1,000	kg	Drilling chemical storage area		
QUIK-FREE – drilling additive	500	1,000	kg	Drilling chemical storage area		QUIK-FREE – drilling additive	500	1,000	kg	Drilling chemical storage area		
BAROFIBRE, BAROFIBRE Superfine and BAROFIBRE COARSE Loss of circulation material	500	1,000	kg	Drilling chemical storage area		BAROFIBRE, BAROFIBRE Superfine and BAROFIBRE COARSE Loss of circulation material	500	1,000	kg	Drilling chemical storage area		
BaraBlend-657 Loss of circulation material	500	1,000	kg	Drilling chemical storage area		BaraBlend-657 Loss of circulation material	500	1,000	kg	Drilling chemical storage area		
N-DRIL HT PLUS filtration control additive	500	1,000	kg	Drilling chemical storage area		N-DRIL HT PLUS filtration control additive	500	1,000	kg	Drilling chemical storage area		
DEXTRID LTE filtration control additive	4,600	13,800	kg	Drilling chemical storage area		DEXTRID LTE filtration control additive	4,600	13,800	kg	Drilling chemical storage area		
BARABUF pH buffer	500	1,000	kg	Drilling chemical storage area		BARABUF pH buffer	500	1,000	kg	Drilling chemical storage area		
BORE-HIB shale stabiliser	500	1,000	kg	Drilling chemical storage area		BORE-HIB shale stabiliser	500	1,000	kg	Drilling chemical storage area		
BDF 933 or BaraLube W-933 drilling lubricant	864	1,728	kg	Drilling chemical storage area		BDF 933 or BaraLube W-933 drilling lubricant	864	1,728	kg	Drilling chemical storage area		
BAROLIFT sweeping agent	500	1,000	kg	Drilling chemical storage area		BAROLIFT sweeping agent	500	1,000	kg	Drilling chemical storage area		
OXYGON Oxygen scavenger	500	1,000	kg	Drilling chemical storage area		OXYGON Oxygen scavenger	500	1,000	kg	Drilling chemical storage area		
ENVIRO-THIN filtration control additive	500	1,000	kg	Drilling chemical storage area		ENVIRO-THIN filtration control additive	500	1,000	kg	Drilling chemical storage area		
Lime pH buffer	500	1,000	kg	Drilling chemical storage area		Lime pH buffer	500	1,000	kg	Drilling chemical storage area		
BDF 677 Clay stabiliser	4,770	9,540	kg	Drilling chemical storage area		BDF 677 Clay stabiliser	4,770	9,540	kg	Drilling chemical storage area		
BDF 988 Clay stabiliser	3,390	6,780	kg	Drilling chemical storage area		BDF 988 Clay stabiliser	3,390	6,780	kg	Drilling chemical storage area		
SARALINE 185V- Synthetic based mud	299,800	599,600	kg	Drilling chemical storage area		SARALINE 185V- Synthetic based mud	299,800	599,600	kg	Drilling chemical storage area		
NOVATEC P emulsifier for SBM	13,110	26,220	kg	Drilling chemical storage area		NOVATEC P emulsifier for SBM	13,110	26,220	kg	Drilling chemical storage area		
NOVATEC S emulsifier SBM	5700	11,400	kg	Drilling chemical storage area		NOVATEC S emulsifier SBM	5700	11,400	kg	Drilling chemical storage area		
Calcium Chloride weighting agent SBM	37,000	74,000	kg	Drilling chemical storage area		Calcium Chloride weighting agent SBM	37,000	74,000	kg	Drilling chemical storage area		

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Current EMP text						Amended EMP text					
VG SUPREME clay viscosifier SBM	11,350	22,700	kg	Drilling chemical storage area		VG SUPREME clay viscosifier SBM	11,350	22,700	kg	Drilling chemical storage area	
M-I BAR weighting agent SBM	193,500	169,500	kg	Drilling chemical storage area		M-I BAR weighting agent SBM	193,500	169,500	kg	Drilling chemical storage area	
NOVATEC F emulsifier SBM	3,610	7,220	kg	Drilling chemical storage area		NOVATEC F emulsifier SBM	3,610	7,220	kg	Drilling chemical storage area	
NOVATEC transferred emulsifier SBM	1770	1770	kg	Drilling chemical storage area		NOVATEC transferred emulsifier SBM	1770	1770	kg	Drilling chemical storage area	
Waste drilling fluids	2,500	2,500	m ³	Drilling mud sump		Waste drilling fluids	2,500	2,500	m ³	Drilling mud sump	
Completion fluids	1.4	1.4	ML	Drilling mud sump/on-site tank		Completion fluids	1.4	1.4	ML	Drilling mud sump/on-site tank	
Condensate	160	320	KL	Condensate storage area		Condensate	160	320	KL	Condensate storage area	
Diesel	250	500	KL	Diesel storage tanks		Diesel	250	500	KL	Diesel storage tanks	
Hydraulic oil	1,000	3,000	L	Workshop		Hydraulic oil	1,000	3,000	L	Workshop	
Engine oil	1,000	3,000	L	Workshop		Engine oil	1,000	3,000	L	Workshop	
Degreasers	100	300	L	Workshop		Degreasers	100	300	L	Workshop	
Flowback	<10	13.8	ML	Flowback tanks		Flowback	<10	13.8	ML	Flowback tanks	
Appendix											
Appendix E Chemical Risk Assessment AECOM (2019). <i>Beetaloo 2019 Campaign - Hydraulic Fracturing Chemical Risk Assessment</i> , dated 16-Dec-2019. Appendix E.1 Chemical Risk Assessment – Condor EHS Support (2023) <i>Hydraulic Stimulation Chemical Risk Assessment Tamboran Resources Northern Territory Tenements</i> , dated 12 January 2023.						Appendix E Chemical Risk Assessment (revised) AECOM (2023). <i>Beetaloo Exploration and Appraisal Program - Hydraulic Fracturing Chemical Risk Assessment. Dated June 2023.</i> Appendix E.1 Chemical Risk Assessment – Condor EHS Support (2023) <i>Hydraulic Stimulation Chemical Risk Assessment Tamboran Resources Northern Territory Tenements</i> , dated 12 January 2023.					