STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
TELEPHONE: (303) 692-3500

CERTIFICATION TO DISCHARGE UNDER CDPS GENERAL PERMIT COG840000 DISCHARGES ASSOCIATED WITH PRODUCED WATER TREATMENT FACILITIES

Certification Number: **COG840004**

This Certification to Discharge specifically authorizes:

Encana Oil and Gas (USA) Inc.
to discharge from the facility identified as

Hunter Mesa Facility
Latitude 39.47001° N Longitude 107.71481° W
to:
West Mamm Creek

Facility Located at: SE ¼, SE ¼, Section 1, T7S, R93W, Garfield County

Outfall 001A – direct discharge via pipeline to West Mamm Creek	Latitude 39° 26' 36" N, Longitude 107° 42" 49" W. After completion of all treatment and prior to being released to West Mann Creek.
Outfall 002A – discharge from the Lake Fox Spillway to West Mamm Creek	Latitude 39° 27' 18" N, Longitude 107° 46" 54" W. After completion of all treatment and prior to being released to West Mann Creek.

Permit Limitations and Monitoring Requirements apply consistent with General Permit Part I.B and Part I.C

Parameter	ICIS Code	Discharge Limitations Maximum Concentrations				Monitoring Frequency	Sample Type
		30-Day Average	7-Day Average	Daily Max.	2-Year Average		
Applicable to all Discharges							
GENERAL PARAMETERS OF CONCERN							
Flow, MGD	50050	0.9	NA	Report	NA	Continuous	Recorder
Temperature, °C	00010	NA	Report (MWAT)	Report (2hr Max)	NA	Continuous	Recorder
Total Suspended Solids, mg/l	00530	30	45	NA	NA	Monthly	Grab
Total Dissolved Solids, mg/l	70295	Report	NA	Report	NA	Monthly	Grab
pH, s.u. (Minimum-Maximum)	00400	NA	NA	6.5-9.0	NA	Monthly	Garb
Chlorides, mg/l	00940	250	NA	Report	38	Monthly	Grab
ORGANIC PARAMETERS OF CONCERN							
Oil and Grease, mg/l	03582	NA	NA	10	NA	Monthly	Grab
Benzene, ug/l	34030	NA	NA	5,300	795	Monthly	Grab
Toluene, ug/l	34010	NA	NA	17,500	2625	Monthly	Grab
Ethylbenzene, ug/l	37371	NA	NA	32,000	4800	Monthly	Grab
Xylenes (Total), ug/l	81551	NA	NA	Report	NA	Monthly	Grab
Volatile and Semi-Volatile Organic Compounds, ug/l	51577	Report	NA	Report	NA	Quarterly	Grab
METAL PARAMETERS OF CONCERN Potentially Dissolved (PD) unless noted otherwise)							
Aluminum, Total Recoverable, ug/l	01104	1438	NA	10071	216	Monthly	Grab
Antimony, Dissolved, ug/l	01095	Report	NA	Report	NA	Monthly	Grab
Arsenic, Total Recoverable, ug/l	00978	100	NA	NA	15	Monthly	Grab
Arsenic, PD, ug/l	01309	NA	NA	340	51	Monthly	Grab
Barium, PD, ug/l	01311	Report	NA	Report	---	Monthly	Grab
Beryllium, Total Recoverable, ug/l	00998	100	NA	Report	15	Monthly	Grab
Cadmium, potentially dissolved, ug/l	01313	0.97	NA	9.1	0.15	Monthly	Grab
Trivalent Chromium, Total Recoverable, ug/l	04262	NA	NA	50	7.5	Monthly	Grab

Parameter	ICIS Code	Discharge Limitations Maximum Concentrations				Monitoring Frequency	Sample Type
		30-Day Average	7-Day Average	Daily Max.	2-Year Average		
Hexavalent Chromium, dissolved, ug/l	01220	11	NA	16	1.7	Monthly	Grab
Copper, PD, ug/l	01306	23	NA	38	3.5	Monthly	Grab
Iron, Total Recoverable, ug/l	00980	1000	NA	NA	150	Monthly	Grab
Lead, PD, ug/l	01049	8.1	NA	209	1.2	Monthly	Grab
Manganese, PD, ug/l	01319	2379	NA	4305	357	Monthly	Grab
Mercury, Total, ug/l	71900	0.01	NA	NA	0.0015	Monthly	Grab
Nickel, PD, ug/l	01322	132	NA	1186	20	Monthly	Grab
Selenium, PD, ug/l	01323	4.6	NA	18.4	0.69	Monthly	Grab
Silver, PD, ug/l	01304	2.1	NA	13	0.32	Monthly	Grab
Thallium, PD, ug/l	01324	15	NA	NA	2.3	Monthly	Grab
Uranium, PD, ug/l	01326	5036	NA	8062	755	Monthly	Grab
Zinc, PD, ug/l	01303	317	NA	366	48	Monthly	Grab
Calcium (mg/l)	00918	Report	NA	NA	NA	Monthly	Grab
Magnesium (mg/l)	00921	Report	NA	NA	NA	Monthly	Grab
Sodium (mg/l)	00923	Report	NA	NA	NA	Monthly	Grab
Bicarbonate as HCO3 (mg/l)	00440	Report	NA	NA	NA	Monthly	Grab
SAR calculated limit*	00931	Report	NA	NA	NA	Monthly	Grab
Adjusted SAR effluent**	00931	Report	NA	NA	NA	Monthly	Grab
SAR pass/fail ***	51613	Pass/Fail	NA	NA	NA	Monthly	Grab
EC (dS/m)	00094	1.5	NA	NA	NA	Monthly	Grab
RADIONUCLIDE PARAMETERS OF CONCERN							
Radium 226+228, Total pCi/l	11503	Report	NA	5	0.75	Quarterly	Grab
WET, chronic							
Static Renewal 7 Day Chronic *Pimephales promelas*	TKP6C	NA	NA	NOEC or IC25 ≥ IWC	NA	Quarterly	Grab
Static Renewal 7 Day Chronic *Ceriodaphnia dubia*	TKP3B	NA	NA	NOEC or IC25 ≥ IWC	NA	Quarterly	Grab

* This SAR limit is to be calculated using the actual measured EC value (30-day average) of the effluent and substituting this value in to the following equation to solve for SAR. The equation for determining the SAR limit is: SAR = (7.1 * EC) – 2.48. **This limitation is capped at 8.17.**

** The SAR value of the effluent is to be reported as the adjusted SAR. See the definitions section in Part I.C.17 for information on calculating the adjusted SAR value.

*** The permittee shall compare the SAR value of the effluent (adjusted SAR) to this calculated SAR limitation and report as Pass/Fail whether the effluent SAR meets this value. If the SAR effluent value (adjusted SAR) is less than or equal to the calculated limit, then the permittee will report "Pass" and if it is greater than the calculated limit the permittee will report "Fail."

See the permit for definitions and more information regarding the terms and conditions associated with the above limitations.

Issued: February 9, 2012 **Effective: March 1, 2012** **Expiration: August 31, 2014**

This certification under the permit requires that specific actions be performed at designated times. The certification holder is legally obligated to comply with all terms and conditions of the permit.

Signed,

Andrew Neuhart
Assessment Based Permits Unit Manager
Water Quality Control Division