WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MARCH 22 – MARCH 28, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	3-27-15 3-25-15	7:00 8:00	Grab Sample	7.13 24.0	<50 NTU	6.63 6.66	6.5-8.5		X X	N/A	N/A	N/A	N/A	NO NO	NONE NONE	0.0 0.15	FOGGY RAIN		BOBBI WEINMAN
POC-2	3-25-15	8:00	Grab Sample	8.05	<50 NTU	6.56	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.15	RAIN		BOBBI WEINMAN
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	N/A	N/A						
POC-4	3-23-15 3-25-15	10:00 8:00	Grab Sample	10.09 6.99	<50 NTU	6.50 6.50	6.5-8.5		X X	N/A	N/A	N/A	N/A	NO NO	NONE NONE	0.30 0.15	RAIN RAIN		BOBBI WEINMAN
POC-5 To East Ditch	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/			N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE	/	Grab Sample	N/A	N/A	/	6.5-8.5	/	/	N/A	N/A								
POC-6 (GH1)	3-27-15	7:00	Grab Sample	35.2	<50 NTU	7.33	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.0	FOGGY		BOBBI WEINMAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	3-25-15	8:00	Grab Sample	5.61	<50 NTU	6.50	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.15	RAIN		BOBBI WEINMAN
POC-8 (GH3)	3-24-15	8:00	Grab Sample	31.2	<50 NTU	7.32	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.51	LIGHT RAIN PARTLY SUNNY		BOBBI WEINMAN
POC-10	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	N/A	N/A						
POC-11	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

3-23-2015: CASTING BASIN IS STILL FLOODED; GROUNDWATER DEWATERING PUMP IS OFF.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MARCH 15 - MAR. 21, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	3-2-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	3-16-15	8:00	Grab Sample	9.80	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	1.94	CLOUDY		BOBBI WEINMAN
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE	/	Grab Sample	~~N/A~~	N/A	/	6.5-8.5	/	/	N/A	N/A								
POC-6 (GH1)	3-16-15	8:00	Grab Sample	19.17	<50 NTU	7.90	6.5-8.5		X		X	N/A	N/A	NO	NONE	1.94	CLOUDY		BOBBI WEINMAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	3-16-15	8:00	Grab Sample	6.99	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	1.94	CLOUDY		BOBBI WEINMAN
POC-8 (GH3)	3-17-15 3-16-15	8:00 8:00	Grab Sample	31.5 37.3	<50 NTU	7.63 7.86	6.5-8.5		X X		X X	N/A	N/A	NO NO	NONE NONE	0.0 1.94	CLOUDY		BOBBI WEINMAN
POC-10	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5					N/A	N/A						NORMA HERNANDEZ
POC-11	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5					N/A	N/A						NORMA HERNANDEZ
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

3-16-2015: CASTING BASIN IS STILL FLOODED, AND IS EXPECTED TO BE FLOODED FOR A COUPLE OF WEEKS, UNTIL THE GATE STRUCTURES ARE REPAIRED + REPAINTED.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MARCH 8 – MAR. 14, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	3-2-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						NORMA HERNANDEZ
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						NORMA HERNANDEZ
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						NORMA HERNANDEZ
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

AS OF 3/9/2015

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

3-8-2015: WE INSTALLED METAL SCREENS OVER ALL THE FLOOR DRAINS IN THE CASTING BASIN, IN PREPARATION FOR FLOODING THE BASIN AND OPENING THE GATE TO GRAYS HARBOR FOR CYCLE 6 PONTOONS FLOATOUT. ALSO, WE INSTALL AIR PLUGS AT POC10 AND POC11

3-9-2015: SLUICE GATES OPENENED AND BASIN WAS FLOODED BY 2PM. THE BASIN DEWATERING PUMP (FOR GROUNDWATER) WAS TURNED OFF PONTOONS FLOAT OUT STARTED AROUND MIDNIGHT

3-10-2015: ALL PONTOONS WERE FLOATED OUT BY 3AM THIS MORNING. CASTING BASIN WILL REMAIN FLOODED UNTIL GATE STRUCTURES ARE REPAIRE + REPAINTED.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MARCH. 1 - MAR. 7, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	3-2-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	3-2-15	8:50	Grab Sample	5.51	<50 NTU	7.22	6.5-8.5		X		X	N/A	N/A	NONE	NONE	0.06	OVERCAST		RILEY VANNOY
POC-~~1~~2	3-4-15	9:00	Grab Sample	13.93	<50 NTU	8.0	6.5-8.5		X	N/A	~~N/A~~ X	N/A	N/A	NONE	NONE	0.01	CLEAR		BOBBI WEINMAN
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	3-2-15	8:50	Grab Sample	15.3	<50 NTU	7.0	6.5-8.5		X		X	N/A	N/A	NONE	NONE	0.06	OVERCAST		NORMA HERNANDEZ
POC-5 To ~~Infiltration~~ DITCH	3-4-15	9:00	Grab Sample	24.0 ~~N/A~~	~~N/A~~ <50 NTU	6.9	6.5-8.5		X	N/A	~~N/A~~ X		X	NONE	NONE	0.01	CLEAR		BOBBI WEINMAN
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 12/31/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: (PAGE 1 of 2)
FEB. 22 – FEB. 28, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	222 8024
Calibration Date:	1-13-2015 / 2-23-2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	25 6456
Calibration Date:	2-3-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	2/27/15	9:30	Grab Sample	32.4	<50 NTU	8.25	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.36	Cloudy Light rain		RILEY VANNOY
POC-2	2/27/15	9:30	Grab Sample	21.9	<50 NTU	7.98	6.5-8.5		X		X	N/A	N/A	NO	NONE NOT DISCHARGED	0.36	Cloudy		RILEY VANNOY
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	2/27/15	9:30	Grab Sample	13.20	<50 NTU	6.76	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.36	Cloudy		RILEY VANNOY
POC-5 To East Ditch	2/23/15	7:20	Grab Sample	11.92	<50 NTU	6.83	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.0	Sunny		BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	2/27/2015	9:30	Grab Sample	7.11	<50 NTU	6.97	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.36	Cloudy		RILEY VANNOY
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: (PAGE 2 of 2)
FEB. 22 – FEB. 28, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1-13-2015 / 2-23-2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	2-3-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	2/25/15	3:45	Grab Sample	44.5	<50 NTU	6.8	6.5-8.5		X		X	N/A	N/A	NO	MINOR DISTURBANCE, I SHUT OFF THE PUMP	0.01	Sunny		NORMA HERNANDEZ
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	2/25/15	3:45	Grab Sample	27.2	<50 NTU	7.0	6.5-8.5		X	X		N/A	N/A	NO	NONE	0.01	Sunny		NORMA HERNANDEZ
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	2/25/15	3:45	Grab Sample	6.23	<50 NTU	7.4	6.5-8.5		X	X		N/A	N/A	NO	NONE	0.01	Sunny		NORMA HERNANDEZ
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	2/25/15	3:45	Grab Sample	36.8	<50 NTU	8.0	6.5-8.5		X	X		N/A	N/A	NO	NONE	0.01	Sunny		NORMA HERNANDEZ
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	No DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: FEB.15 – FEB.21, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1-13-2015

pH Meter	
Model:	EXTECH EX STICK
Serial #:	256456
Calibration Date:	2/3/2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	2/17/2015	8:10	Grab Sample	13.79	<50 NTU	7.20	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.0	Sunny		BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	2/16/2015	8:45	Grab Sample	4.72	<50 NTU	7.72	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.01	Clear		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: FEB. 8 - FEB. 14, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1/13/2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	2/3/2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	2/9	9:15 am	Grab Sample	13.90	<50 NTU	6.8	6.5-8.5		X	N/A	N/A	N/A	N/A	No	None	0.36	Light Rain		RILEY VANNOY
POC-2	2/10	8:30 am	Grab Sample	36.3	<50 NTU	7.1	6.5-8.5		X		X	N/A	N/A	No	None	0.52	Cloudy, Light rain		RILEY VANNOY
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	~~2/11~~ 2/9	9:15 am	Grab Sample	33.3 36.2	<50 NTU	7.5 7.5	6.5-8.5		X X		X X	N/A	N/A	No	None	0.36	Light Rain		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
~~POC-7~~ (GH2)	2/10	8:30 am	Grab Sample	45.8	<50 NTU	7.6	6.5-8.5		X	N/A	N/A	N/A	N/A	No	None	0.52	Cloudy Light Rain		RILEY VANNOY
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: FEB. 1 – FEB. 7, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1-13-2015

pH Meter	
Model:	EXTECH / EXSTICK
Serial #:	256456
Calibration Date:	1-20-2015, 2-3-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	2/3	10:00 am	Grab Sample	15.33	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	None	0.30	overcast/ Light rain	52/46	RILEY VANNOY
POC-2	2/3	10:00 am	Grab Sample	4.74	<50 NTU	6.5	6.5-8.5		X		X	N/A	N/A	No	None	0.30	overcast/ Light rain	52/46	RILEY VANNOY
POC-3	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	N/A	N/A	N/A	N/A						
POC-4	2/5 2/2	8:30 am	Grab Sample	7.32 12.14	<50 NTU	6.6 6.5	6.5-8.5		X X	N/A	N/A	N/A	N/A	NO NO	None NONE	0.23	LIGHT RAIN	53/45	BOBBI WEINMAN
POC-5 To East Ditch	2/2	8:30 am	Grab Sample	13.90	<50 NTU	6.9	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.23	LIGHT RAIN	53/45	BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE	/	Grab Sample	N/A	N/A	/	6.5-8.5	/		N/A	N/A	/							
POC-6 (GH1)	2/7 SATURDAY	1:30 PM	Grab Sample	26.4	<50 NTU	7.9	6.5-8.5		X		X	N/A	N/A	No	None	1.14	Rain	55/49	RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	2/5	9am	Grab Sample	7.32	<50 NTU	6.6	6.5-8.5		X	N/A	N/A	N/A	N/A	No	None	0.21	Rain	54/49	RILEY VANNOY
POC-8 (GH3)	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	N/A	N/A						
POC-10	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/	/	N/A	N/A						
POC-11	NO DISCHARGE	/	Grab Sample	/	<50 NTU	/	6.5-8.5	/	/	/		N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 25 - JAN. 31, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1/23/2015

pH Meter	
Model:	EXTECH/EASTICK
Serial #:	256556
Calibration Date:	1/20/2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	1/26	8:00 am	Grab Sample	8.31	<50 NTU	6.7	6.5-8.5		X	N/A	N/A	N/A	N/A	TRICKLING OUT clear	None		FOGGY NO Rain		BOBBI Weinman
POC-2	1/30	5:15 pm	Grab Sample	5.2	<50 NTU	6.6	6.5-8.5		X		X	N/A	N/A	Trickling	NONE		Cloudy no rain		NORMA HERNANDER
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	1/28	9:25 am	Grab Sample	6.87	<50 NTU	6.9	6.5-8.5		X		X	N/A	N/A	NO	None		Cloudy no rain		RILEY VANNOY
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	1/26	8:00 am	Grab Sample	46.9	<50 NTU	7.7	6.5-8.5		X		X	N/A	N/A	NO	None		FOGGY NO Rain		Bobbi Weinman
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 12/31/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 18 - JAN. 24, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1/13/2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	12/19/2014 1/20/2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	1/23 1/19	1:20pm 8:15	Grab Sample	21.5 6.02	<50 NTU	6.9 7.1	6.5-8.5		X X	N/A	N/A	N/A	N/A	NO NO	NONE NONE	0.25 0.19	Rain SUNNY		R.V. RILEY VANNOY
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	1/23	3pm	Grab Sample	9.51	<50 NTU	6.6	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	None	0.25	Rain		RILEY VANNOY
POC-5 To East Ditch	1/21	10:40 am	Grab Sample	17.98	<50 NTU	7.1	6.5-8.5		X		X	N/A	N/A	NO	None	0.01	Sunny		RILEY VANNOY
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	1/19	8:15	Grab Sample	12.68	<50 NTU	7.2	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.19	SUNNY		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	1/23	1:20 pm	Grab Sample	12.73	<50 NTU	7.0	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.25	Rain		RILEY VANNOY
POC-8 (GH3)	1/23	3:20 pm	Grab Sample	36.6	<50 NTU	7.3	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.25	Rain		RILEY VANNOY
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 11 - JAN. 17, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	1/13/2015

pH Meter	
Model:	EXTECH EXSTICK
Serial #:	256456
Calibration Date:	12/19/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	1/17	6:30 am	Grab Sample	16.1	<50 NTU	6.9	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE		LIGHT RAIN		BOBBI WEINMAN
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	1/17	6:30 am	Grab Sample	17.5	<50 NTU	7.1	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE		LIGHT RAIN		BOBBI WEINMAN
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A		X						
*POC-6 (GH1)	1/13	2:30 pm	Grab Sample	6.04	<50 NTU	7.9	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.01	cloudy		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	1/17	12pm	Grab Sample	25.3	<50 NTU	7.1	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE		LIGHT RAIN		BOBBI WEINMAN
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE NONE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

1/12/2015: We are continuing/finalizing clean-up of Cal-Portland's hydraulic oil spill that occured and was contained Saturday. Cal-Portland hired CCS sweeper on Saturday to sweep oily debris from the road. Also, today Cal-Portland used their own sweeper truck to clean-up additional oily debris + kitty litter. Debris is being sent to LeMays for disposal as SPECIAL WASTE generated by Cal-Portland (MATT HINK/Cal Portland)
1/13/2015: We removed remaining ECO-BLOCKS from the bottom of Pond 3 east cell. Regraded side slope east side of this pond cell.
1/15/2015: We removed woody debris left over from the crane pad that was temporarily placed on Pond 3 east cell to remove ECO-BLOCKS on 1/13/2015.

*SEE ADDITIONAL DATA COLLECTED FOR POC-6, next page.

Form 435 - Printed in U.S.A. 11/95

WORK SHEET

Project
Type of Work

Estimator
Date

Item No.
Sheet No.

ADDITIONAL DATA COLLECTED for POC-6

DATE	NTU	pH	
1/15/2015	6.67	8.0	NO OIL SHEEN (RILEY)
1/17/2015	26.02	8.0	NO OIL SHEEN (BOBBI)

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JAN. 4 – JAN. 10, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	12/9/2014

pH Meter	
Model:	EXSTICK
Serial #:	256456
Calibration Date:	12/19/2014

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	1/5	9am	Grab Sample	14.88	<50 NTU	6.7	6.5-8.5		X	N/A	N/A	N/A	N/A	TURBID FROM HEAVY RAINS	NONE	6.58	CLOUDY, SPRINKLING		RILEY VANNOY
POC-2	1/5 1/5	12pm 5pm	Grab Sample	73.7 47.4	<50 NTU	7.6 6.9	6.5-8.5		X		X	N/A	N/A	" "	NONE	6.58	CLOUDY SPRINKLING		NORMA HERNANDEZ
POC-3	1/5	2pm	Grab Sample	29.90	<50 NTU	7.3	6.5-8.5		X	N/A	N/A	N/A	N/A	" "	NONE	6.58	Cloudy		NORMA HERNANDEZ
POC-4	1/5	2pm	Grab Sample	9.30	<50 NTU	7.1	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	6.58	Cloudy		NORMA HERNANDEZ
POC-5 To East Ditch	1/5	2pm	Grab Sample	30.6	<50 NTU	7.0	6.5-8.5		X		X	N/A	N/A	NO	NONE	6.58	Cloudy		NORMA HERNANDEZ
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	1/5	9am	Grab Sample	43.1	<50 NTU	7.8	6.5-8.5		X		X	N/A	N/A	TURBID FROM RAINS	NONE	6.58	Sprinkling + Cloudy		RILEY VANNOY
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	1/5	9am	Grab Sample	5.03	<50 NTU	6.6	6.5-8.5		X	N/A	N/A	N/A	N/A	TURBID FROM RAINS	NONE	6.58	sprinkling + Cloudy		RILEY VANNOY
POC-8 (GH3)	1/5	2pm	Grab Sample	42.2	<50 NTU	7.6	6.5-8.5		X		X	N/A	N/A	TURBID FROM RAINS	NONE	6.58	Cloudy		NORMA HERNANDEZ
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP	NO DISCHARGE NONE		Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

1/5/2015: We've had over 6.5 inches of rain in the last 24-hours. See my attached email to Dustin/Aaron/Matt. We had to discharge turbid water from Pond 1; See my attached email to Dave Davies/WSDOT.
1/7/2015: The oil-water separator @ Maintenance Power Wash Station was vacuumed out today by Safety Kleen.
1/9/2015: Best Parking Lot Cleaners swept the site road today.
1/10/2015: (SATURDAY) Cal-Portland's concrete truck had a hydraulic fluid leak/spill, +/-3 gallons. This was a major clean-up effort, but it was contained, and not reportable to Ecology. See my email to Dave Davies/WSDOT on 1/10/2015 attached.

Norma.Hernandez

From: Norma.Hernandez
Sent: Monday, January 05, 2015 10:54 AM
To: Dustin.Donahoo; Aaron.Byron; Matt.Dicrescentis
Cc: Robert.Brenner; Riley.Vannoy
Subject: Today's Storm event

Good morning,
The storm that arrived yesterday to the jobsite dropped over 6.5 inches in the last 24 hours. The site's stormwater management was designed to support up to 5 inches of rain in 24-hours, as required by the NPDES Sand & Gravel General Permit.
Permit condition G21 "Upset" allows for noncompliant discharges provided we document the reasons behind the discharge, why we were unable to prevent the discharge, and provided that we notify Ecology of the discharge. At this time, we are preparing to safely remove the plug at Pond 1 because the pond is full, and the casting basin is flooded with 18" of water. The project operations have been shut down.
Turbidity readings in Pond 1 vary from 85 NTUs to 35 NTUs, with the average of the 4 cells being 50.4 NTUs. The permit limit is 50 NTUs. Ph readings vary between 9.0 to 7.2 standard units, with the average between the 4 cells being 7.8 standard units. The permit limit for pH is 8.5 standard units. I think we'll be OK with the pH, but It possible that we will exceed the limit for turbidity when we pull the plug for the Pond, so I will sample and test the water as it discharges from POC-2 outfall to the west ditch to confirm compliance.
I have contacted Kyle Scott at the Wastewater Treatment, and they are unable to accept any discharge from us at this time.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Tuesday, January 06, 2015 4:40 PM
To: DavieDa@wsdot.wa.gov
Cc: Riley.Vannoy
Subject: RE: Notification to Ecology for high turbidity discharge at POC-2

Dave,
I made a typo mistake below: we were drawing from cell 2, not 3. Cell 2 is the one that typically has lowest turbidity.
Thanks.
-Norma

From: Norma.Hernandez
Sent: Monday, January 05, 2015 5:21 PM
To: DavieDa@wsdot.wa.gov
Cc: Dustin.Donahoo; Aaron.Byron; Matt.Dicrescentis; Riley.Vannoy; Robert.Brenner
Subject: RE: Notification to Ecology for high turbidity discharge at POC-2

Dave,
As an update to this issue, I just sampled and tested the water at POC-2 at 5PM, and turbidity has dropped to 47.4 NTUs, with pH holding at 7.0.
We are now in compliance with the permit's effluent limits.
Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

From: Norma.Hernandez
Sent: Monday, January 05, 2015 4:37 PM
To: DavieDa@wsdot.wa.gov
Cc: Dustin.Donahoo; Aaron.Byron; Matt.Dicrescentis; Riley.Vannoy; Robert.Brenner
Subject: Notification to Ecology for high turbidity discharge at POC-2

Dave,
Per my voicemail to you today, I placed a phone call (voicemail) to Ecology earlier this afternoon to notify Chris Johnson that we had to discharge process water from Pond 1 at POC-2 which exceeded the effluent limit for turbidity. The reason for this was that the pond water level had reached its maximum, and the casting basin had flooded to 18" from the rains last night and into this morning. We started pumping process water within the permit effluent limits yesterday (Sunday) morning and through the night (from cell 3 of Pond 1, which typically has the lowest turbidity of the 4 cells). However, due to the heavy precipitation, the discharge pump could not keep pace.

Before allowing the high turbidity discharge, I contacted Kyle Scott at the City of Aberdeen Waste Water Treatment Plant to check if they could accept process water directly from our Pond 1 drainage connection, but Mr. Scott said they were unable to take any more water. In order to expedite the removal of the water from the casting basin, we had to remove the plug from Pond 1 to allow water to gravity discharge out POC-2 to the west ditch. I sampled and tested the water at the POC-2 manhole, and determined it to be 73.7 NTUs with 7.56 pH. The turbidity reading exceeded the permit allowable limit of 50 NTUs, which required that I notify Ecology per permit condition S6.E.2. We will continue to discharge until the casting basin is drained, and we will then reinstall the plug to stop the gravity flow to POC-2.

Although the discharge at POC-2 was above the effluent limit for turbidity, I informed Mr. Johnson (by voicemail) that I would submit a follow-up report letter to establish an affirmative defense of upset per permit condition G21, based on the site's recorded 24-hour precipitation amount of 6.58 inches (as comparison, NOAA's record for Hoquiam was 5.85 inches in 24-hours).

I will also prepare an ECAP report for WSDOT based on RFP 1-2.2K(1)A's "Notification Trigger" number 2, due to this discharge exceeding the permit effluent limit for turbidity.

We have been monitoring all other outfalls throughout the day, including POC-1, and found the discharges to be with permit effluent limits.

Thanks.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Saturday, January 10, 2015 3:40 PM
To: DavieDa@wsdot.wa.gov
Cc: Dustin.Donahoo; Riley.Vannoy; JohnL.Adams; Matt.Dicrescentis
Subject: Hydaulic Fluid Spill today

Dave,
For your information, one of Cal-Portland's concrete trucks had a hydraulic fluid leak as it traveled over the asphalt ring road on site. The leak was first noticed this morning around 10:45 AM, and our crews immediately began containment and clean-up efforts. None of the oil reached waters of the state. Clean-up efforts took several hours, but thankfully this was not a reportable spill.
I will write up a Spill Incident Report when I return to the jobsite on Monday.
Thank you.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 28 – JULY 4, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	6-11-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU	N/A	6.5-8.5					N/A	N/A						
POC-5g To Infiltration			Grab Sample	N/A	N/A	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)			Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 06/01/2015

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 21 - JUNE 28, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	6-1-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	6-22-15	2pm	Grab Sample	36.2	<50 NTU	7.1	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	DRY		NORMA HERNANDEZ
POC-5g To Infiltration	6-22-15	2pm	Grab Sample	N/A	N/A	N/A	6.5-8.5		X	N/A	N/A	N/A	N/A	N/A	N/A	Ø	DRY		NORMA HERNANDEZ
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

6.22.2015: POND A WAS CLEANED OUT LAST WEEK. ALL GROUNDWATER DEWATERING WATER STARTED FILLING THE POND. BASED ON ECOLOGY'S DETERMINATION ON 5/29/2015 EMAIL TDS DOES NOT HAVE TO BE MONITORED WHEN DISCHARGING TO POC-5 INFILTRATION TRENCH. THIS IS THE FIRST TIME WATER IS FILLING THE INFILTRATION TRENCH SINCE NOVEMBER OF LAST YEAR.

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 14 - JUNE 20, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	22284 20
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	6-1-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	6-15-15	3 pm	Grab Sample	19.24	<50 NTU	6.9 ~~N/A~~	6.5-8.5		X		X	N/A	N/A	NONE	NONE	Ø	DRY		NORMA HERNANDEZ
POC-5g To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 06/01/2015

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 7 — JUNE 13, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	5-14-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	6-8-15	1PM	Grab Sample	14.75	<50 NTU	8.1	6.5-8.5		X	✓		N/A	N/A	NO	NONE		DRY		BOBBI WEINMAN
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	6-12-15	2:15	Grab Sample	28.9	<50 NTU	6.7 ~~N/A~~	6.5-8.5		X		X	N/A	N/A	NO	NONE		DRY		NORMA HERNANDEZ
POC-5g To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 06/01/2015

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MAY 31 - JUNE 6, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	5-14-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	6-4-2015	10:30	Grab Sample	35.1	<50 NTU	7.21	6.5-8.5		X		X	N/A	N/A	NO	NONE		DRY		BOBBI WEINMAN
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU	N/A	6.5-8.5					N/A	N/A						
POC-5g To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	6-1-15	11AM	Grab Sample	11.1	<50 NTU	6.8	6.5-8.5		X	✓		N/A	N/A	NO	NONE		LIGHT RAIN		BOBBI WEINMAN
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 06/01/2015

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MAY 24 – MAY 30, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228402
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	0150055
Calibration Date:	5-14-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	5.30.15	11:30	Grab Sample	33.5	<50 NTU	7.1	6.5-8.5		X	✓		N/A	N/A	NO	NONE	Ø	DRY		BOBBI WEINMAN
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MAY 17 – MAY 23, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	0150055
Calibration Date:	5-14-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	5-19-15	7:55	Grab Sample	8.32	<50 NTU	6.8	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	OVERCAST DRIZZLE		NORMA HERNANDER
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

5/18/2015: SLUDGE TAKEN FROM POND 1 Cell 2 to the WWTP today
5/19/2015: ON-GOING SLUDGE Removal from Pond 1 Cell 2. SEE attached email from Kyle Scott @ WWTP.
5/20/2015: WWTP is unable to accept any more SLUDGE until further notice. See attached email

Norma.Hernandez

From: Kyle Scott <kscott@aberdeenwa.gov>
Sent: Tuesday, May 19, 2015 4:13 PM
To: Ben.Jones; Norma.Hernandez; Riley.Vannoy
Subject: sludge disposal

So it's been interesting...

We've processed sludge from your site essentially in two separate events. (5/11&5/12 and 5/18&5/19)

After the first there was a clear impact on the operational effectiveness of our anaerobic digester. Basically, what you are bringing us is non-volatile. Which is unfortunate because our digester is required to achieve a minimum amount of volatile solids destruction to maintain permit compliance.

In a nutshell, we need to to destroy volatiles to be effective, and what you're bringing us has very little for us to destroy.

Digester operation can be a bit temperamental anyways, but after the self imposed 5 days to process the first round of sludge, the testing for the digester trended the right direction each day.

I'll have more data tomorrow from the second round of sludge processing. I'm hopeful the digester comes around and we'll be able to continue to accommodate the 12,000 to 15,000 gpd.

I got the impression from Riley that the volume may be more than the initial 100,000 gallon estimate. Any thoughts on this?

Also, we should also probably discuss disposal costs and the pump VFD/transaction.

Let me know.

Thanks,

--
Kyle Scott
Wastewater Systems Manager
City of Aberdeen
Office 360.537.3285
Cell 360.580.1191

Norma.Hernandez

From: Kyle Scott <kscott@aberdeenwa.gov>
Sent: Tuesday, May 19, 2015 4:30 PM
To: Norma.Hernandez
Subject: Re: sludge disposal

I've confirmed with Riley, as of right now you're good for another 15,000 gallons tomorrow.

Kyle

On Tue, May 19, 2015 at 4:25 PM, <norma.hernandez@kiewit.com> wrote:

Hi Kyle,

Thanks for the update. Riley is double checking the volumes estimate based on what we are seeing from today's efforts, and he will get back with you about it.

Ben is out this week, but he will be back Tuesday next week, and he can continue the conversation about the disposal costs and pump VFD/transaction.

We were planning additional sludge deliveries tomorrow. Is it OK to continue as we have, or did you need us to reduce quantities tomorrow, or did you need a day off?

-Norma

From: Kyle Scott [mailto:kscott@aberdeenwa.gov]
Sent: Tuesday, May 19, 2015 4:13 PM
To: Ben.Jones; Norma.Hernandez; Riley.Vannoy
Subject: sludge disposal

So it's been interesting...

We've processed sludge from your site essentially in two separate events. (5/11&5/12 and 5/18&5/19)

After the first there was a clear impact on the operational effectiveness of our anaerobic digester.

Basically, what you are bringing us is non-volatile. Which is unfortunate because our digester is required to achieve a minimum amount of volatile solids destruction to maintain permit compliance.

In a nutshell, we need to to destroy volatiles to be effective, and what you're bringing us has very little for us to destroy.

Digester operation can be a bit temperamental anyways, but after the self imposed 5 days to process the first round of sludge, the testing for the digester trended the right direction each day.

I'll have more data tomorrow from the second round of sludge processing. I'm hopeful the digester comes around and we'll be able to continue to accommodate the 12,000 to 15,000 gpd.

I got the impression from Riley that the volume may be more than the initial 100,000 gallon estimate. Any thoughts on this?

Also, we should also probably discuss disposal costs and the pump VFD/transaction.

Let me know.

Thanks,

--

Kyle Scott

Wastewater Systems Manager

City of Aberdeen

Office 360.537.3285

Cell 360.580.1191

--
Kyle Scott
Wastewater Systems Manager
City of Aberdeen
Office 360.537.3285
Cell 360.580.1191

Norma.Hernandez

From: Kyle Scott <kscott@aberdeenwa.gov>
Sent: Wednesday, May 20, 2015 3:41 PM
To: Norma.Hernandez; Riley.Vannoy
Subject: sludge disposal

I'm sure you've both got word from Willy.

We are going to be unable to process sludge at least for the rest of this week. It has too much negative impact on our digestion process and we are facing permit non-compliance should we continue.

I'll continue to think about alternative disposal methods for you.

Let me know if you have any questions.

Thanks,

--
Kyle Scott
Wastewater Systems Manager
City of Aberdeen
Office 360.537.3285
Cell 360.580.1191

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MAY 10 – MAY 16, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH220
Serial #:	0150055
Calibration Date:	5-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	5-11-15	8:30	Grab Sample	25.3	<50 NTU	7.7	6.5-8.5		X		X	N/A	N/A	NO	NONE	Trace	LIGHT RAIN		BOBBI WEINMAN
POC-5 To East Ditch	5-12-15	8:00	Grab Sample	9.08	N/A	6.9	6.5-8.5		X		X	NA	NA	NO	NONE	0.01	LIGHT RAIN		BOBBI WEINMAN
POC-6 (GH1)	5-12-15	8:00	Grab Sample	12.41	<50 NTU	7.9	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.01	LIGHT RAIN		BOBBI WEINMAN
					<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NO DISCHARGE TO INFILTRATION TRENCH

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

5-11-2015: STARTED Removing sludge from POND 1 Cell 1 using Vacuum trucks, and delivered to the WWTP, per the attached email to Ecology.
5-14-2015: FISH ID efforts for POND 1 Cell 2 completed today. See attached email

Norma.Hernandez

From: Norma.Hernandez
Sent: Monday, May 18, 2015 1:56 PM
To: Dustin.Donahoo; Joaquin.Medina; Ben.Jones
Cc: Riley.Vannoy; Josh.Norquist
Subject: Fish ID Completed for Pond 1 Cell 2

MAY 14, 2015

For the record, last week Thursday we completed the Fish ID effort for **Pond 1 Cell 2**. Mud samples from the bottom of the cell were taken to a screen where they were washed down with a water hose to find fish. About (15) fifteen Threespine Stickleback were found, plus (1) one flounder 6" long, and (1) one gunnel.
This effort was briefly discussed during last week ETF Meeting on Thursday afternoon.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

Norma.Hernandez

From: Norma.Hernandez
Sent: Friday, May 08, 2015 12:17 PM
To: Mahar, Azizullah (ECY)
Cc: Pacifico, Marc (ECY) (mpac461@ECY.WA.GOV); chris.johnson@ecy.wa.gov; DavieDa@wsdot.wa.gov; Dustin.Donahoo; Joaquin.Medina; Ben.Jones; Riley.Vannoy
Subject: Treatment of Sedment/Sludge from Detention Ponds at SR 520 Pontoons Project in Aberdeen

Aziz,

Beginning next week Monday, Kiewit-General will be cleaning out the bottom of the process water detention ponds at the SR 520 Pontoons Casting facility in Aberdeen, and the sediment/sludge that results from the cleaning will be delivered to Aberdeen's Waste Water Treatment Plant (WWTP) using vacuum trucks. This effort will be similar (with one exception explained in Step 4 below) to the pond sediment removal that Kiewit-General completed last year in September and October, in which vacuum trucks were used to deliver the sediment/sludge to the WWTP. As you will recall, upon Ecology's review of those efforts last year, it was determined that they were not covered by Kiewit-General's State Waste Discharge Permit or the Sand & Gravel Permit. However, you had asked that in the event Kiewit-General elected to send material to the WWTP again using the vacuum trucks, I should inform you ahead of time.

As per my phone message to you on Wednesday, May 6th, 2015, Kiewit-General (KG) has been discussing with the City of Aberdeen Waste Water Treatment Plant (WWTP) the procedures for us to deliver sediment/sludge using vacuum trucks from our site's process water detention ponds to their facility for treatment. Also on Wednesday, May 6th, KG provided the WWTP a 5-gallon sample of the sediment/sludge taken form our detention ponds, which the WWTP then tested to make a determination as to how best to treat the material. Today, Friday May 8, 2015, KG's Operations Manager Ben Jones and I met with the WWTP Manager, Kyle Scott, to finalize the procedures. Here's a summary of the agreed-upon procedures:

1) On Monday, KG will use vacuum trucks to vacuum out sediment/sludge from the bottom of the process water detention Pond 1. Each truck will be able to deliver approximately 2,000 gallons of sludge.
2) Testing for Total Suspended Solids (TSS) will <u>not</u> be required or performed.
3) An initial sample will be tested for pH to inform the WWTP, and is anticipated to be between 6.5 and 10.0 pH. For the last 5 days, process water in the 4 cells of Pond 1 have tested between 6.9 and 9.1 pH.
4) The vacuum truck will discharge the sediment/sludge into the WWTP's first upstream manhole from their wet well, which pumps it into their headworks for treatment. This manhole discharge point is different than last year, when the trucks discharged at the WWTP's decanter. Kyle Scott indicated that the material was very fine and took about three weeks to solidify in the decanter, and believes that it will be more effectively treated for solids removal if discharged into the manhole and pumped to the headworks.
5) For Monday's delivery of sediment/sludge, the WWTP has agreed to accept about 10,000 to 12,000 gallons. They will process it, and test for Biochemical Oxygen Demand (BOD). This test review is expected to take 5 days, after which the WWTP will confirm with KG how much volume it will be able to handle for future scheduled sediment/sludge deliveries.
6) Future deliveries of sediment/sludge will be scheduled with the WWTP ahead of time, and follow the procedure steps 1 through 4 as described above.

Based on these procedures, and in consideration Ecology's determination last year, I do not believe that the sediment/sludge delivered to the WWTP from these clean-out efforts are covered by our State Waste Discharge Permit, and therefore will <u>not</u> be reported as discharges in our monthly Discharge Monitoring Report (DRM) for this permit.

Please let me know if you have any questions about this, or if you need additional information.
Thank you.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MAY 3 – MAY 9, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-6	5-9-15	NOON	Grab Sample	25.6	<50 NTU	7.9	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	Ø	SUNNY		RILEY VANNOY
POC-6	5-8-15	9AM	Grab Sample	18.29	<50 NTU	7.5	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	DRY		BOBBI WEINMAN
POC-6	5-7-15	9AM	Grab Sample	19.23	50NTUs	7.8	6.5-8.5		X		X	NA	NA	NO	NONE	Trace	Clear		BOBBI WEINMAN
POC-6 (GH1)	5-4-15	8AM	Grab Sample	14.76	<50 NTU	7.2	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	CLOUDY		BOBBI WEINMAN
POC-6	5-5-15	9:30	Grab Sample	20.9	<50 NTU	7.6	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	CLOUDY some rain		BOBBI WEINMAN
POC-6	5-6-15	3PM	Grab Sample	16.75	<50 NTU	7.9	6.5-8.5		X		X	N/A	N/A	NO	NONE		CLEAR		BOBBI WEINMAN
POC-8 (GH3)	5-4-15	8AM	Grab Sample	46.1	<50 NTU	7.5	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	CLOUDY		BOBBI WEINMAN
POC-8	5-9-15	NOON	Grab Sample	23.4	<50 NTU	8.4	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	SUNNY		RILEY VANNOY
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NO DISCHARGE POC5 TO INFILTRATION TRENCH

NO DISCHARGES FOR POC-4, POC7, POC10

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

5-7-2015: in preparation for Pond Cleaning at POND 1 cell 1 we checked Pond bottom for any remaining fish, and identified them, as requested by the WDFW. SEE ATTACHED EMAILS

Norma.Hernandez

From: Davies, David (SR167) <DavieDa@wsdot.wa.gov>
Sent: Thursday, April 30, 2015 6:50 PM
To: Amy.Spoon@dfw.wa.gov
Cc: Curt.Holt@dfw.wa.gov; Dustin.Donahoo; Norma.Hernandez; Cziesla, Chris (Consultant); Meade, Michelle
Subject: 520 Pontoons project - Fish ID Plan for Ponds Clean-out
Attachments: Identification of fish during final pond clean R2.pdf; CHART Fish ID for Ponds Cleaning.pdf; Juvenile Salmon Photo Key.pdf; RE: SR 520 Pontoon Construction Project - Follow-up to yesterday's phonecall to WDFW about final clean-out of Ponds

Amy,

See below message from Kiewit-General's Norma Hernandez, and the attachments. This "Fish Identification Plan" will be implemented to document the species found during K-G's upcoming pond draining and cleaning work. The plan was written to address the information needs you expressed in your 4/15/15 email to us (thank you, also attached).

K-G is targeting next Wednesday May 6th to begin draining/ cleanout of the first pond here onsite. WSDOT will observe, and help K-G identify fish species found if necessary. Please let us know if you have any questions. Thanks again.

Dave Davies
Environmental Compliance Manager
Pontoon Construction Project
SR 520 Bridge Replacement and HOV Program
Washington State Department of Transportation
(360) 500-4427 direct | (253) 310-1562 mobile
1301 West Heron Street | PO Box 1928 | Aberdeen, WA 98520
MS - NP40

Leadership - Focus - Integrity

From: norma.hernandez@kiewit.com [mailto:norma.hernandez@kiewit.com]
Sent: Thursday, April 30, 2015 1:15 PM
To: Davies, David (SR167); chriscz@confenv.com
Cc: Dustin.Donahoo@kiewit.com; Josh.Norquist@kiewit.com; ben.jones@kiewit.com; Joaquin.Medina@kiewit.com; Riley.Vannoy@kiewit.com; Barbara.Weinman@kiewit.com
Subject: Fish ID Plan for Ponds Clean-out

Dave and Chris,
Kiewit-General proposes to implement the following revised Fish Identification Plan during the final cleaning of Ponds 1 and 3, scheduled to start next week. Please forward this to the Washington Department of Fish and Wildlife as discussed.
Thank you.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

SR 520 Pontoon Construction Project
IDENTIFICATION OF FISH DURING FINAL CLEAN-OUT OF PONDS

Final pond cleaning and grading will likely include the removal of accumulated sediment from the bottoms of all of the ponds on the 520 pontoons site. During Pond 1 and Pond 3 fish removal operations in August and September of 2014, it was acknowledged that "a residual population of stickleback may remain in the ponds." Therefore, it is possible that when we drain these ponds down now, we may encounter stickleback and other species of fish.

Kiewit-General does not intend to perform any fish handling and removal efforts during this 2015 pond cleaning process. Instead, KG will utilize the method described below in order to generally identify the species that may be found in the ponds.

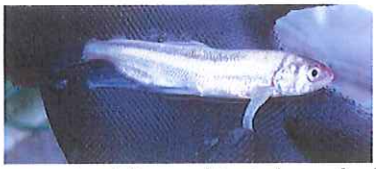
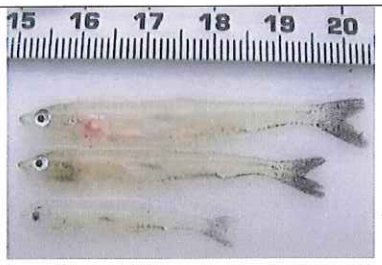
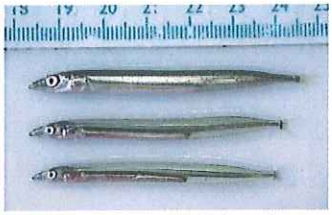
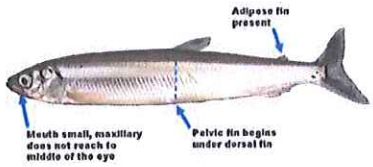
Prior to the operation, KG will distribute a fish identification photo sheet to the KG supervisors involved in the fish identification operation. A copy of the identification sheet is attached. The fish identification will be performed by KG and WSDOT supervision that has previous experience with fish handling. The following fish were found during the 2014 fish removal effort, so their photos are included in the identification sheet:

-Threespine Stickleback
-Staghorn Sculpin
-Saddleback Gunnel
-Starry Flounder
-Shiner Perch

It is possible that other species of fish in addition to the five (5) species listed above will be present in Pond 1, when this pond is emptied. Photos of additional species encountered during casting basin fish handling will also be included in the fish identification sheet. Any fish resembling a salmonid or ESA listed species (Green Sturgeon, bull trout, eulachon) will be positively identified, or photographed and emailed to WSDOT Biologists for identification, and preserved on ice.

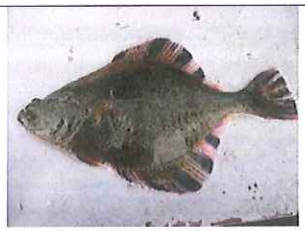
If any fish encountered is positively identified as an ESA listed species, K-G will stop work and WSDOT will immediately coordinate with the Federal Services' contact, per ESA and Biological Opinion requirements. However, for non-listed species that are encountered, a "fish-kill" or "harassment" notification will NOT be required.

During initial pond draining, the intake end of the pump suction hose will be covered in fish netting to prevent the suctioning of any fish. K-G may use the portable diesel pump currently in use for handling pond water, or may expedite this initial draining stage by using a vacuum truck with fish netting at the intake hose. Once the water is nearly drained from a pond cell, and before the sediment suctioning begins, two K-G craft workers will use fish dip nets to skim the top layer of mud for fish. These fish will be brought to the side of the cell and washed through a screen for identification by a KG supervisor, as described above. The K-G craft workers will collect fish from each pond cell until a representative sampling is obtained from which it can be reasonably deduced the type of species that habituated the cell. Once this representative sampling is obtained, K-G will begin suctioning the sediment/mud out of the cell.

 • Sawlike serrated edge along midline of belly • Longitudinal row of dark spots at shoulder **American shad**	 • Long pectoral fins reaching to base of pelvic fins • Silver sides, back ranging pink to olive • Adipose fin\ **Longfin smelt**	 • Dark gray or brown with silver luster • Dark blotches on back and sides • Juveniles with dark vertical bars on sides **Pile perch**
 • 3 dorsal fins and 2 anal fins • Short chin barbell • Brown/olive above, white below **Pacific Tomcod**	 **Larval smelt**	 • Compressed, oval-shaped bodies • Continuous dorsal fins with 9-11 spines, 19-28 soft rays • Base color: silver, Additional: stripes, bars **Surf Perch (general)**
 • Two pairs of cirri on head, one pair above eye and one small pair on occiput in slight depression **Kelp greenling (juvenile)**	 • Slender body with long sharp lower jaw • Iridescent green/gray above, silver below **Pacific sand lance**	
 • Long snout overhanging <u>large</u> mouth • Bluish-green body above, silver below • Adults with silver stripe on side **Northern anchovy**	 • Slender tail base, 12 rays on caudal in • Three spines, 3rd spine very short • Smaller than 1.5" **Threespine stickleback**	
 • Green back with silver band on side • Tiny scales and small, round adipose fin **Surf Smelt**	 • Sheath of scales separating dorsal fin from body scales • Yellow and black vertical bars along sides **Shiner perch**	

- Large eyes, thick mouth that dips down at corners
- Bony plates on head and body, heavy spines

Rockfish



- Black & white/orange on dorsal/anal fins
- Skin covered in star-shaped scales
- Eyes can be on either side

Starry flounder

- Light tan with dark cross bars
- 23-26 isolated spines on back
- Elongated snout

Tube snout

- Large pectoral fins
- Skin is naked or covered with spines

Sculpin

- Brown, occasionally speckled
- Dark edges on dorsal and ventral fin
- Curved lateral line
- Eyes on RIGHT side

English sole

- Small or absent pectoral fins
- Long body with rounded snout
- Flattened body, move slowly

Gunnel

- "Antlers" above gills

Pacific staghorn sculpin

- Dull brown or tan, males with orange spots
- Straight lateral line
- Eyes on LEFT side

Speckled sanddab

- Round, cartilaginous body. No scales
- Dark bluish gray or dark brown
- Round, down-turned sucker mouth
- External gill slits

Pacific lamprey

- Four lateral lines
- Photophores (light-emitting organ)

Midshipman

- Light green dorsal area, cream below. Brown/green streaks on side
Large pectoral fins

Snake prickleback

- Deeply forked caudal fin
- Dark blue to olive on back, silver sides/belly

Pacific herring

- Olive green back with yellow belly
- 8-11 sharp dorsal scutes

Green sturgeon

- Pale olive green to dark green/brown
- Elongated snout

Bay pipefish

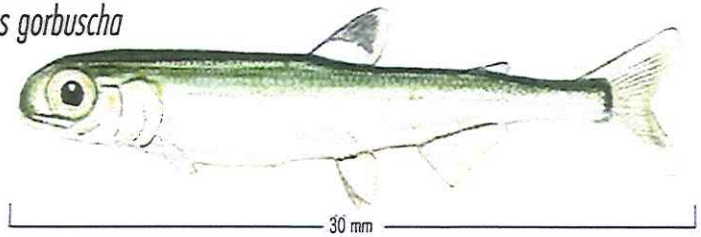
- Slim body, deeply forked caudal fin
- Small mouth with small barbels on side
- Dark back, two dark stripes down sides

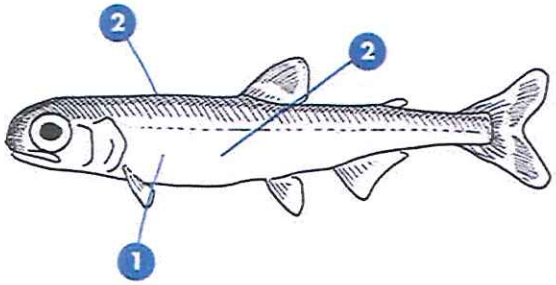
Peamouth

Pink salmon

Oncorhynchus gorbuscha

FRY



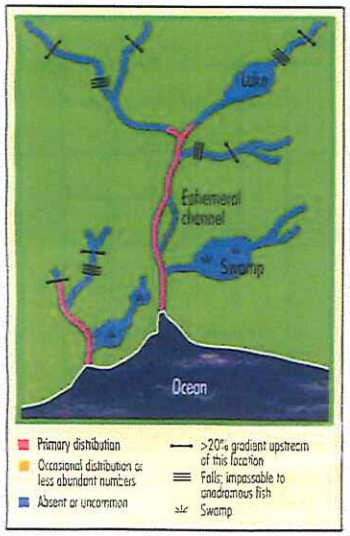


Colour & Anatomy

1 Parr marks are absent.
2 Dorsal surface is green, ventral is silver.

Distribution

- Pink salmon are found in lower reaches of small coastal streams.
- Some runs ascend large rivers for several hundred kilometres.



Freshwater residence time

- Fry hatch, emerge and go directly to sea.

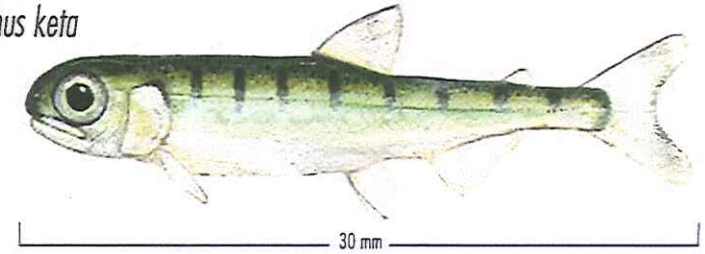
Other

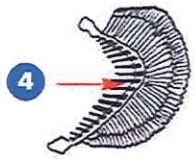
- Fry are 3–3.5 cm long—maximum size in freshwater 4.5–5 cm.
- Pink salmon may spawn in the intertidal zone.
- All adult pink salmon are 2 years old. Rivers frequently have adult runs only every other year. A few watersheds have natural runs every year, but the even-numbered year or odd-numbered year run will typically be stronger.

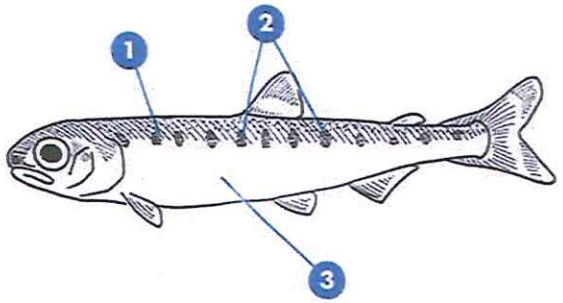
Chum salmon

Oncorhynchus keta

FRY







Colour & Anatomy

1 Parr marks smaller than vertical diameter of eye, and faint or absent below lateral line.
2 Parr mark height is more regular than on sockeye.
3 Area below lateral line has pale greenish iridescence.
4 Gill rakers are short and stubby, about half the length of the gill filament, 19 to 26 on first gill arch.

Distribution

- Chum usually occur in lower reaches of most coastal streams.
- Chum migrate up to 160 km up Fraser River and lower reaches of large tributaries. Fish migrate over 2000 km in Yukon and Mackenzie Rivers.

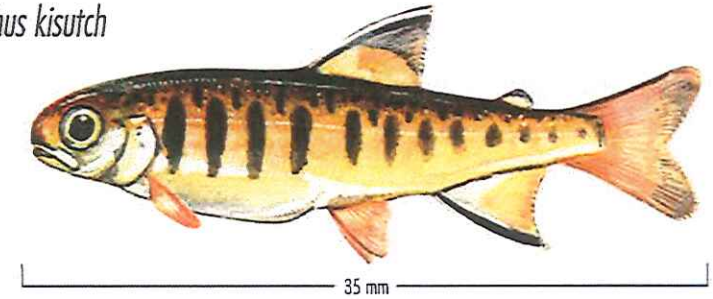
Behaviour

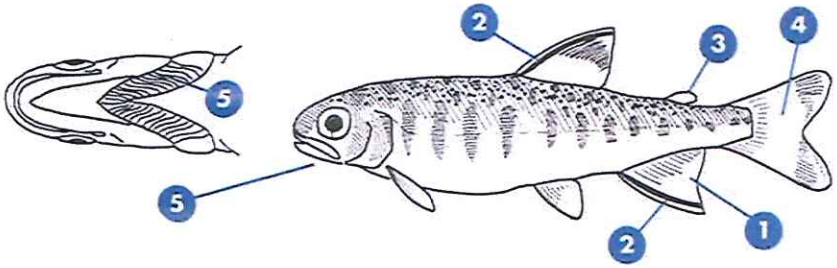
- Chum migrate downstream to sea soon after emergence. They are usually gone from fresh water by June 1.
- Chum may spawn in intertidal zone of small streams.

Coho salmon

Oncorhynchus kisutch

FRY



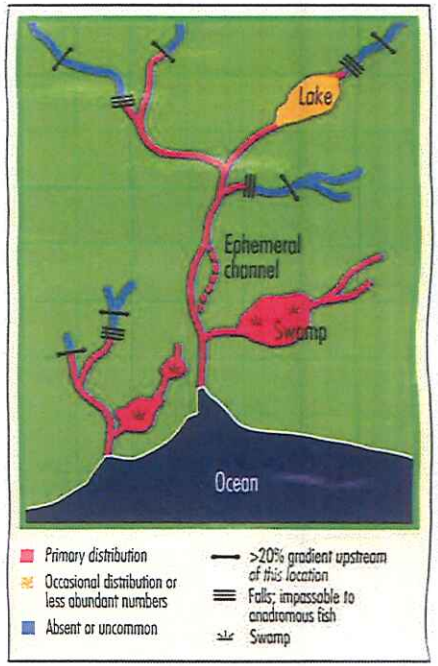


Colour & Anatomy

1 Anal fin is sickle-shaped, leading edge longer than base.
2 Leading edges of anal and dorsal fins have white followed by black.
3 Adipose fin has dark edge, centre is opaque.
4 Caudal, anal and adipose fins are pale orange.
5 Species has 13–14 branchiostegals.
6 Species usually has 45–80 pyloric caeca.

Distribution

- Coho use all accessible reaches of streams.
- Seasonally wetted areas and off-channel sloughs, swamps and their tributaries are used for winter rearing.
- In main stems of large rivers, coho use margins, debris piles and undercut banks.
- Coho may be found in fresh/saltwater pools in small estuaries.
- In small streams they prefer pools and glides.



Behaviour

- Coho feed actively on anything falling into water. They are common along stream margins. Coho are the most common and easily seen salmon fry during the active growing season.
- Below about 6°C, the fry will seek cover under banks or in debris piles.
- Coho will nip and chase each other.

Freshwater residence time

- Coho remain in fresh water 1–2 years.

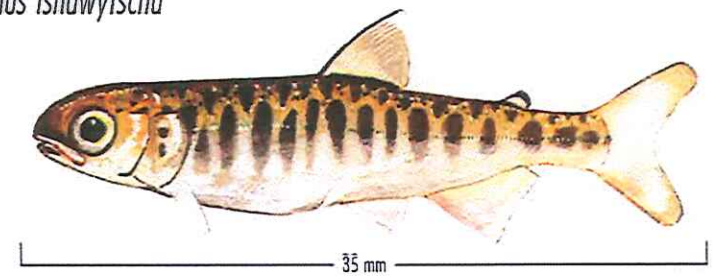
Other

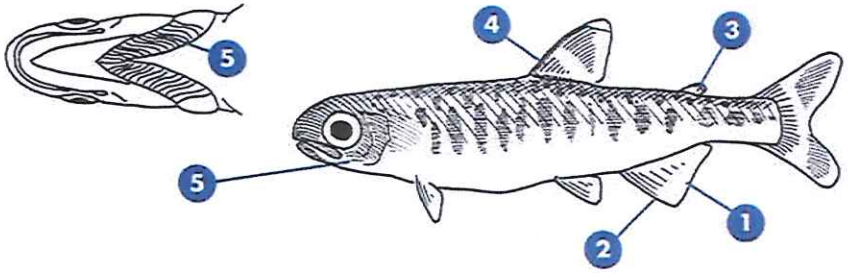
- Coho are very widely distributed in streams of all sizes, including very small first- and second-order streams.
- Some stocks in small first- and second-order streams may not be in DFO files.
- You may encounter "Lake Forms" of coho with a less sickle-shaped anal fin.
- As coho become ready to smolt, they will become brighter and the anal fin is less sickle-shaped.

CHINOOK SALMON

Oncorhynchus tshawytscha

FRY





COLOUR & ANATOMY

1 Anal fin is not sickle-shaped: leading edge of anal fin shorter than length of base.
2 Anal fin leading edge is white.
3 Adipose fin has clear centre or "window."
4 Dorsal fin has dark leading edge and white tip.
5 Species has 16–18 branchiostegols.
6 Species usually has 135–185 pyloric caeca.

DISTRIBUTION

- Chinook are usually found in moderate to large streams.
- Main channel is used for rearing.
- In large streams, 8–10 cm fish live in faster, deeper water than coho.
- Chinook may rear in estuaries of larger rivers—e.g. Nanaimo, Cowichan, Fraser.
- Adults may hold in lakes before spawning.

FRESHWATER RESIDENCE TIME

- Chinook may form races with some rearing >1 year, some 90 days or less depending upon type. Southern populations frequently stay 90 days and northern populations are more likely to stay up to a year, but can be variable in all areas.

OTHER

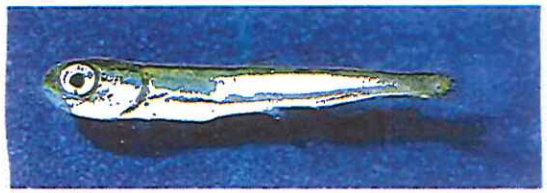
- Most populations of chinook are known and listed in DFO escapement catalogs.
- Dorsal fin tip darkens as fish become ready to go to sea.

CHINOOK VS COHO

- Chinook have "clear window" in adipose.
- Chinook do not have sickle-shaped anal fins or white and black stripes on leading edges of anal and dorsal fins.
- Coho have sickle-shaped anal fins, with the leading edges longer than length of base of anal fins. Leading edges of anal and dorsal fins have white and black stripes.
- Chinook frequent main stems of moderate to large rivers. Coho are found in all accessible stream reaches, including seasonally wetted areas.

Live Specimens: salmon fry

Important diagnostic features visible on photographs are identified. Refer to Identification Charts and species pages to confirm identifications made from photos. Note: length of base of anal fin is larger than length of base of dorsal fin on all juvenile salmon.



Length: 30 mm.

Pink Salmon Fry

Parr marks are absent.

Colour is very silver.

Length: 55 mm.

Chum Salmon Fry

Parr marks are even in length—more above than below lateral line.

Blue/green sheen shows below lateral line.

Length: 50 mm.

Sockeye Salmon Fry

Parr marks are uneven length, and some are equal above and below lateral line.

No green sheen shows below lateral line.

Length: 50 mm.

Coho Salmon Fry

Dorsal and anal fin margins are sickle-shaped and have white and black stripes.

Par marks larger than eye diameter.

Fins are red or orange.

Length: 50 mm.

Chinook Salmon Fry

Dorsal has white tip.

Adipose has clear window.

Parr marks larger than eye diameter.

References

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Trautman, M.B. 1973. *A guide to the collection and identification of presmolt Pacific salmon in Alaska with an illustrated key.* NOAA Technical Memorandum NMFS ABFL-2. U.S. Government Printing Office, Washington, D.C. 20 pp.

Norma.Hernandez

From: Norma.Hernandez
Sent: Friday, May 08, 2015 7:52 AM
To: Dustin.Donahoo; Joaquin.Medina; Ben.Jones
Cc: Riley.Vannoy; Josh.Norquist
Subject: Fish ID Completed for Pond 1 Cell 1
Attachments: PHOTOS=Fish ID Effort Pond 1 Cell 1 (2015-05-07).pdf

Yesterday we completed the Fish ID effort for Pond 1 Cell 1, which started around 2:00 PM and ended at 2:40 PM. Mud samples from the bottom of the cell were taken to a screen where they were washed down with a water hose to find fish. Only one fish was found, a Threespine Stickleback, approximately 2 inches long. WSDOT's Dave Davies observed this effort, and agreed with me to stop at 2:40 PM.
During the ETF meeting at 3:00 PM, Davies suggested using a different net to collect fish in the other larger cells of Pond 1.

Norma Hernandez
Environmental Compliance Manager
SR520 Pontoons Project
Kiewit-General, A Joint Venture
Office: (360) 500-4389 / Cell: (602) 516-3817

POND 1 CELL 1

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: APRIL 26 - MAY 2, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	4-28-15	9AM	Grab Sample	9.83	<50 NTU	7.7	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.04	LIGHT RAIN		BOBBI WEINMAN
POC-2	4-29-15	2PM	Grab Sample	9.28	<50 NTU	8.0	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.03	LIGHT RAIN		BOBBI WEINMAN
POC-2	4-30-15	10AM	Grab Sample	10.30	<50 NTU	8.3	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.03	DRY		BOBBI WEINMAN
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	4-27-15	7:30	Grab Sample	11.25	<50 NTU	7.0	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.08	CLOUDY		BOBBI WEINMAN
POC-6	5-1-15	10AM	Grab Sample	15.31	<50 NTU	7.2	6.5-8.5		X			N/A	N/A	NO	NONE	Ø	DRY		BOBBI WEINMAN
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	4-29-15	2PM	Grab Sample	7.78	<50 NTU	8.0	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.03	LIGHT RAIN		BOBBI WEINMAN
POC-8	4.30-15	10AM	Grab Sample	4.18	<50 NTU	7.8	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.03	DRY		BOBBI WEINMAN
POC-8	5-1-15	10AM	Grab Sample	8.89	<50 NTU	8.4	6.5-8.5		X		X	N/A	N/A	NO	NONE	Ø	DRY		BOBBI WEINMAN
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NO DISCHARGES FOR POC-3 and POC-4

NO DISCHARGES FOR POC-10 and POC-11

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 12/31/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: APRIL 5, — APRIL 11, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	4-10-15	3:35	Grab Sample	16.9	<50 NTU	6.7	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NO	0.01	Heavy Rain (0.89 TODAY)		NORMA HERNANDEZ
POC-5 To East Ditch	4-6-15	7:30	Grab Sample	5.64	<50 NTU	6.9	6.5-8.5		X		X	N/A	N/A	NO	NO	Ø	LIGHT RAIN		BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	4-6-15	7:30	Grab Sample	27.4	<50 NTU	7.32	6.5-8.5		X		X	N/A	N/A	NO	NO	Ø	LIGHT RAIN		BOBBI WEINMAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	4-6-15	7:30	Grab Sample	12.27	<50 NTU	7.8	6.5-8.5		X		X	N/A	N/A	NO	NO	Ø	LIGHT RAIN		BOBBI WEINMAN
~~POC-10~~ POC-6	4-7-15	7:15	Grab Sample	28.7	<50 NTU	7.8	6.5-8.5		X		X	N/A	N/A	NO	NO	Ø	SPRINKLING		BOBBI WEINMAN
~~POC-11~~ POC-6	4-8-15	7:30	Grab Sample	26.2	<50 NTU	7.1	6.5-8.5		X		X	N/A	N/A	NO	NO	Ø	overcast		BOBBI WEINMAN
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NO DISCHARGE FOR POC 10 and POC 11

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: MARCH 29 – APRIL 4, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	4-1-15	8AM	Grab Sample	34.8	<50 NTU	6.51	6.5-8.5		X		X	N/A	N/A	NONE	No change	0.08	Periodic Rain		BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	4-1-15	8AM	Grab Sample	34.8	<50 NTU	7.8	6.5-8.5		X		X	N/A	N/A	NONE	No change	0.08	Periodic Rain		BOBBI WEINMAN
TEMP POC-6	N/A	N/A	NO SAMPLING REQUIRED	N/A	<50 NTU	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	4-1-15	8AM	Grab Sample	18.881	<50 NTU	7.6	6.5-8.5		X		X	N/A	N/A	NONE	No change	0.08	Periodic Rain		BOBBI WEINMAN
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

3/30/2015: The Casting Basin Gate was reset today and basin dewatering started as allowed by the 401 W.Q. Certification Order
3/31/2015: Seined the basin yesterday started fish handling today in basin
4/1/2015: Final Enumeration of Fish in the Basin completed today @ 4/1/2015
4/3/2015: Sweeper Truck swept the Ring Road today

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: APRIL 12 – APRIL 18, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH pH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	4/13	4pm	Grab Sample	20.4	<50 NTU	6.5	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	None	0.25	Rain	50/40	NORMA HERNANDEZ
POC-5 To East Ditch			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	4/13 4/14		Grab Sample	24.2 29.9	<50 NTU	7.1 7.5	6.5-8.5		X X		X X	N/A	N/A	NO NO	NONE NONE	0.25 0.47	RAIN RAIN	50/40 53/38	NORMA HERNANDEZ BOBBI WEINMAN
POC-6	4/15 4/16		Grab Sample	24.6 25.6	<50 NTU	7.8 7.8	6.5-8.5		X X		X X	N/A	N/A	NO NO	NONE NONE	0.17 0.01	DRY DRY	55/38 63/36	BOBBI WEINMAN BOBBI WEINMAN
POC-7 (GH2)	4/13		Grab Sample	29.2	<50 NTU	6.7	6.5-8.5		X	N/A	N/A	N/A	N/A	NO	NONE	0.25	RAIN	50/40	NORMA HERNANDEZ
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 12/19/2014

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: APRIL 19 – APRIL 25, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228024
Calibration Date:	2-23-2015

pH Meter	
Model:	EXTECH PH 220
Serial #:	015005
Calibration Date:	3-19-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch	4/21 4/24		Grab Sample	11.65 23.70	<50 NTU	6.9 7.0	6.5-8.5		X X		X X	N/A	N/A	NO NO	NONE NONE	0.00 0.19	DRY RAIN	56/45 53/44	BOBBI WEINMAN BOBBI WEINMAN
POC-5 To Infiltration	NO DISCHARGE		Grab Sample	N/A	N/A		6.5-8.5			N/A	N/A								
POC-6 (GH1)	4/20 4/21		Grab Sample	12.30 25.10	<50 NTU	7.4 7.4	6.5-8.5		X X		X X	N/A	N/A	NO NO	NONE NONE	0.00 0.00	DRY DRY	66/44 56/47	BOBBI WEINMAN BOBBI WEINMAN
POC-6	4/22		Grab Sample	25.30	<50 NTU	7.6	6.5-8.5		X		X	N/A	N/A	NO	NONE	0.00	LIGHT RAIN	54/44	BOBBI WEINMAN
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)			Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

Revised 12/19/2014

INSPECTED BY: Bobbi Weinman DATE: 7-31-15 TIME: 7:30 AM PM

CURRENT WEATHER: Dry + Foggy 24-HR RAINFALL: inches

TURBIDIMETER: Oakton T-100N Serial #: 22228420 DATE CALIBRATED: 5-14-15

PH METER: ExTech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		15.82	<50 NTU	7.68	6.5-8.5		X				clear
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		35.9	<50 NTU	7.37	6.5-8.5		X				clear
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-30-15 TIME: 7:30 AM PM

CURRENT WEATHER: Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22284420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		15.81	<50 NTU	7.69	6.5-8.5		X			clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		39.2	<50 NTU	7.36	6.5-8.5		X			clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						clear
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-27-15 TIME: 7:30 AM PM

CURRENT WEATHER: Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 2222420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		18.31	<50 NTU	7.73	6.5-8.5		X				clear
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		40.9	<50 NTU	7.40	6.5-8.5		X				clear
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-28-15 TIME: 7:30 AM PM

CURRENT WEATHER: Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22285120 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15 6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		18.03	<50 NTU	7.72	6.5-8.5		X			clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		47.1	<50 NTU	7.41	6.5-8.5		X			clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-27-15 TIME: 7:30 AM PM

CURRENT WEATHER: overcast. 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22228420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15 6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		19.12	<50 NTU	7.23	6.5-8.5		X				clear
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		48.1	<50 NTU	7.36	6.5-8.5		X				clear
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU	6.66	6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-24-15 TIME: 7:30 AM PM

CURRENT WEATHER: Overcast 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 2223420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-11-15 6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		17.67	<50 NTU	7.94	6.5-8.5		X				clear
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		36.5	<50 NTU	7.50	6.5-8.5		X				clear
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-23-15 TIME: 8:00 AM PM

CURRENT WEATHER: Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22228420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		20.9	<50 NTU	8.06	6.5-8.5					clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		39.9	<50 NTU	7.42	6.5-8.5		X				
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)	X		19.83	<50 NTU	6.53	6.5-8.5		X	N/A	N/A	clear	
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-22-15 TIME: 730 AM PM

CURRENT WEATHER: Overcast 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22224420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		18.77	<50 NTU	8.02	6.5-8.5		X			clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		33.2	<50 NTU	7.49	6.5-8.5		X			clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-21-15 TIME: 7:30 AM PM

CURRENT WEATHER: Overcast 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22234420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 0 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		17.20	<50 NTU	7.98	6.5-8.5		X			Clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		32.6	<50 NTU	7.49	6.5-8.5		X			Clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-20-15 TIME: 7:30 AM PM

CURRENT WEATHER: Overcast + Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 2222420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH-220 Serial #: 01 DATE CALIBRATED: 5-14- 6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging? YES	Now Discharging? NO	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen? YES	Oil Sheen? NO	Sampled for TSS? YES	Sampled for TSS? NO	Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
POC-1				<50 NTU		6.5-8.5			N/A	N/A		
POC-2	X		26.4	<50 NTU	7.83	6.5-8.5		X			clear	
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		40.8	<50 NTU	7.26	6.5-8.5		X			clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

INSPECTED BY: Bobbi Weinman DATE: 7-17-15 TIME: 7:30 AM PM

CURRENT WEATHER: Dry 24-HR RAINFALL: inches

TURBIDIMETER: OAKTON T-100 Serial #: 22222420 DATE CALIBRATED: 5-14-15

PH METER: Extech PH220 Serial #: 01 DATE CALIBRATED: 5-14-15

6/11/2015

WATER QUALITY SUMMARY REPORT

POC #	Now Discharging?		NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Comments	For receiving waters, describe any visible change in turbidity or color caused by discharge:
	YES	NO					YES	NO	YES	NO		
POC-1			24.4	<50 NTU	7.64	6.5-8.5		X	N/A	N/A	clear	
POC-2	X			<50 NTU		6.5-8.5						
POC-3				<50 NTU		6.5-8.5			N/A	N/A		
POC-4				<50 NTU		6.5-8.5			N/A	N/A		
POC-5	X		32.5	<50 NTU	7.21	6.5-8.5		X			clear	
POC-6 (GH1)				<50 NTU		6.5-8.5						
TEMP POC-6	DISCHARGE MONITORING NO LONGER REQUIRED FROM THIS OUTFALL (East Ditch outfall to Grays Harbor)											
POC-7 (GH2)				<50 NTU		6.5-8.5			N/A	N/A		
POC-8 (GH3)				<50 NTU		6.5-8.5						

WEEKLY WATER QUALITY SUMMARY REPORT

Project: SR 520 Pontoons Construction
Contract Number: 323-14285

MONITORING WEEK OF: JUNE 28 – JULY 4, 2015

TURBIDIMETER	
Model:	OAKTON T-100
Serial #:	2228420
Calibration Date:	5-14-2015

pH Meter	
Model:	EXTECH 220
Serial #:	0150055
Calibration Date:	6-11-2015

POC #	DATE INSPECTED	TIME	Method of Sampling Collection	NTUs	Permit Limits	pH	Permit Limits	Oil Sheen?		Sampled for TSS?		Sampled for TDS?		Is there any prior disturbance of the receiving body of water?	For receiving waters, describe any visible change in turbidity or color caused by discharge:	24-hr RAINFALL	Weather	Temp. °F	SAMPLED & INSPECTED BY
								YES	NO	YES	NO	YES	NO						
POC-1	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-2	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-3	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-4	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-5 To East Ditch			Grab Sample		<50 NTU	N/A	6.5-8.5					N/A	N/A						
POC-5g To Infiltration			Grab Sample	N/A	N/A	N/A	6.5-8.5			N/A	N/A	N/A	N/A						
POC-6 (GH1)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-7 (GH2)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5			N/A	N/A	N/A	N/A						
POC-8 (GH3)	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-10	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
POC-11	NO DISCHARGE		Grab Sample		<50 NTU		6.5-8.5					N/A	N/A						
Discharge to Aberdeen WWTP			Grab Sample	NOT REQUIRED	N/A		Obtain WWTP approval			Must test & inform WWTP prior to discharge.		N/A	N/A	Inform WWTP of anticipated flow rate prior to discharge. When discharging to WWTP, record the flow rate in GPM:	Water Quality data must be provided to the WWTP prior to discharging. The WWTP will approve or disapprove based on information provided.				

NOTES summarizing critical activities, unusual conditions, corrective actions, any photos taken as supporting documentation, etc:

NO WATER SAMPLES WERE TAKEN THIS WEEK.

THERE WAS NO RAINFALL THIS WEEK.

Revised 06/01/2015