



- LEGEND**
- TARGA'S ACTIVE INJECTION WELL
 - MONITOR WELL LOCATION (SHALLOW)
 - MONITOR WELL LOCATION (DEEP)
 - RECOVERY WELL LOCATION
 - WATER WELL LOCATION (INACTIVE)
 - ⊕ OFFSITE PROPERTY WELLS "NOT SAMPLED"
 - HYDROCARBON INVESTIGATION AREA
 - CHLORIDE INVESTIGATION AREA

- NOTES**
1. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE SLOP OIL SUMP IN JULY 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING SOUTH OF THE SUMP TO A TD OF 10 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH AND LIGHT NON-HALOGENATED HYDROCARBONS WERE ENCOUNTERED IN THE GROUNDWATER. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SUMP OIL SUMP INCLUDED REMOVAL OF THE SUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20 X 20 X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (D) INDICATED HYDROCARBON IMPACTS IN THE SOIL. REMEDIAL ACTIVITIES ARE DETAILED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.
 2. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE SUMP OIL SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING SOUTH OF THE SUMP TO A TD OF 10 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS IN THE GROUNDWATER. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SUMP OIL SUMP INCLUDED REMOVAL OF THE SUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20 X 20 X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (D) INDICATED HYDROCARBON IMPACTS IN THE SOIL. REMEDIAL ACTIVITIES ARE DETAILED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.
 3. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE SUMP OIL SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING SOUTH OF THE SUMP TO A TD OF 10 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS IN THE GROUNDWATER. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SUMP OIL SUMP INCLUDED REMOVAL OF THE SUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20 X 20 X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (D) INDICATED HYDROCARBON IMPACTS IN THE SOIL. REMEDIAL ACTIVITIES ARE DETAILED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.
 4. TWO SEPARATE SHALLOW SURFACE INVESTIGATIONS WERE CONDUCTED IN THE VICINITY OF ENGINE SUMP #28 IN AUGUST 1996 AND JUNE 1997. THE AUGUST 1996 INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SHALLOW SOIL BORING DIRECTLY NORTH OF THE ENGINE SUMP #28 TO A TD OF 10 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996. THE JUNE 1997 INVESTIGATION INCLUDED THE INSTALLATION OF THREE ADDITIONAL SHALLOW SOIL BORINGS EAST, WEST & SOUTH OF THE SUMP TO A MAXIMUM DEPTH OF 4 FEET. NO HYDROCARBONS WERE DETECTED IN ANY OF THE THREE BORINGS AT DEPTH. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE FINAL INVESTIGATION REPORT DATED SEPTEMBER 1996.
 5. A SHALLOW SURFACE INVESTIGATION WAS PERFORMED IN THE VICINITY OF ENGINE SUMP #31 IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING SOUTH OF THE SUMP TO A TD OF 6 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996.
 6. A SHALLOW SURFACE INVESTIGATION WAS CONDUCTED ON THE SOUTHWEST CORNER OF THE EMERGENCY FLARE SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED A SHALLOW TRENCH (TEST PIT) THAT WAS EXCAVATED TO 10 FEET. CONFIRMATION SAMPLES AT DEPTH (D) WERE BELOW LABORATORY DETECTION LIMITS. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996.
 7. AN INTERMEDIATE SURFACE INVESTIGATION WAS PERFORMED IN THE VICINITY OF THE REEF SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 27 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SURFACE INVESTIGATION REPORT DATED SEPTEMBER 1996.
 8. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF FIELD OIL PIT "D" IN NOVEMBER 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TOTAL DEPTH (TD) OF FORTY EIGHT (48) FEET BELOW GROUND SURFACE (BGS). ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS EXTENDED TO 40 FEET BGS. GROUNDWATER WAS NOT ENCOUNTERED DURING THE INSTALLATION OF THE BORING. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE FINAL INVESTIGATION REPORT DATED SEPTEMBER 1996.
 9. THE EAST SUMP WAS CONSTRUCTED OF CONCRETE AND MEASURED 5' X 9' X 8'. THE EAST SUMP WAS REMOVED IN SEPTEMBER 2000 AND THE AREA WAS OVEREXCAVATED TO A TOTAL DEPTH OF 13' X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (D) INDICATED HYDROCARBON IMPACTS IN THE SOIL. REMEDIAL ACTIVITIES ARE DETAILED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.
 10. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE CONCRETE DRAIN SUMP IN SEPTEMBER 2000. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 8 FEET. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. REMEDIAL ACTIVITIES FOR THE CONCRETE DRAIN SUMP INCLUDED REMOVAL OF THE SUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 8' X 12' X 6'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (D) INDICATED HYDROCARBON IMPACTS IN THE SOIL. BOTH INVESTIGATION AND REMEDIATION ACTIVITIES ARE SUMMARIZED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.
 11. THE NORTH BRINE WATER RETENTION POND (POND #2) MEASURED APPROXIMATELY 245' X 24' X 15' AND HAD A DESIGN CAPACITY OF 7500 BARRELS (BBL). USAGE OF THE POND WAS DISCONTINUED IN EARLY 1998. THIS NORTH BRINE WATER RETENTION POND WAS CAPPED AND CROWNED WITH A CLAY CAP IN LATE 2000.
 12. THE SOUTH BRINE WATER RETENTION POND (POND #4) MEASURED APPROXIMATELY 190' X 245' X 16' AND HAD A DESIGN CAPACITY OF 8200 BARRELS (BBL). USAGE OF THE POND WAS DISCONTINUED IN MID 1998. THIS SOUTH BRINE WATER RETENTION POND WAS CAPPED AND CROWNED WITH A CLAY CAP IN LATE 2000.
 13. THE FORMER TANK BATTERY LOCATION WAS STRUCK BY LIGHTNING IN MAY 2000. THIS FORMER TANK BATTERY LOCATION WAS USED FOR FLUID (LAMP) AND PRODUCED WATER STORAGE IN THE GROUNDWATER REMEDIATION SYSTEMS LOCATED ON THE EAST SIDE OF THE PLANT. APPROXIMATELY 200 BBL OF FLUIDS WERE RELEASED AND 300 BBL WERE RECOVERED. DEMOLITION OF THE FORMER TANK BATTERY IS SUMMARIZED IN A TRANSMITTAL LETTER OF A SEMI-ANNUAL GROUNDWATER MONITORING REPORT FOR THE SOUTH EUNICE GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. DATED MARCH 3, 2006.
 14. A SURFACE INVESTIGATION WAS CONDUCTED IN THE VICINITY OF THE FORMER TRUCK LOADING AREA LOCATED SOUTH OF THE PLANT IN NOVEMBER 2000. THE INVESTIGATION INCLUDED THE INSTALLATION OF 3 BORINGS TO GROUNDWATER. HYDROCARBON IMPACTS WERE DETECTED IN THE SHALLOW (6-6 FEET BGS) AND IN THE INTERMEDIATE (20-80 BGS) IN AT LEAST ONE BORING. TWO OF THE THREE WELLS WERE CONVERTED INTO MONITOR WELLS (MW-32 & MW-34). INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION FOR THE SOUTH EUNICE GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. IN JULY 2000.
 15. THE NORTHWEST BRINE WATER RETENTION POND (POND #3) WAS CAPPED IN JULY 2007. DEMOLITION ACTIVITIES OF THE NORTHWEST BRINE WATER RETENTION POND (POND #3) ARE SUMMARIZED IN THE 2007 ANNUAL SUMMARY OF INVESTIGATION AND REMEDIATION FOR THE SOUTH EUNICE GAS PLANT GENERATED BY SECOR INTERNATIONAL IN MARCH 7, 2007.

WELL ID

Mercury	<0.00020	ALL CONCENTRATIONS IN MILLIGRAMS PER LITER (mg/L)
Arsenic	0.138	DETECTION
Selenium	<0.00020	
Barium	0.0615	EXCEEDENCE
Cadmium	<0.0050	
Chromium	<0.0150	
Lead	<0.0150	
Silver	<0.0050	

- NOTES:**
1. SAMPLES WERE COLLECTED IN FEBRUARY 2009 BY THE PREVIOUS SITE CONSULTANT.
 2. DISSOLVED METAL (MERCURY) WAS ANALYZED BY EPA METHOD 7470A.
 3. DISSOLVED METALS (ARSENIC, BARIUM, CADMIUM, CHROMIUM, LEAD, SELENIUM & SILVER) WERE ANALYZED BY EPA METHOD 8210B.
 4. BOLD INDICATES THAT A COC WAS DETECTED.
 5. SHADING INDICATES THAT A DETECTED RESULT EXCEEDED THE NMWCC STANDARD 20.6.2.310.3.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Chevron Environmental Management Company

EUNICE SOUTH

RCRAB METALS CONCENTRATION MAP DEEP WELLS - FEBRUARY 2009

CONESTOGA-ROVERS & ASSOCIATES

Source Reference: USGS 1968 AERIAL

Project Manager:	J. ORNELAS	Reviewed By:	T. LARSON	Date:	FEBRUARY 2009		
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