



● 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

BASEMAP NOTES

1. A SURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE SLOP OIL BUMP IN JULY 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING DUE SOUTH OF THE BUMP TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH AND LIGHT NON-AQUEOUS HYDROCARBON (LNAPL) WAS ENCOUNTERED ON THE GROUNDWATER. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SLOP OIL BUMP INCLUDED REMOVAL OF THE BUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 15'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (17) 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 SLOP OIL BUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING DUE SOUTH OF THE BUMP TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS IN THE SOIL AND GROUNDWATER IN ALL 3 BORINGS. TWO OF THE THREE BORINGS WERE CONVERTED TO MONITOR WELLS MW-1 & MW-2. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SLOP OIL BUMP INCLUDED REMOVAL OF THE BUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 15'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (17) 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 SLOP OIL BUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING DUE SOUTH OF THE BUMP TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS IN THE SOIL AND GROUNDWATER IN ALL 3 BORINGS. TWO OF THE THREE BORINGS WERE CONVERTED TO MONITOR WELLS MW-1 & MW-2. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE SLOP OIL BUMP INCLUDED REMOVAL OF THE BUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 15'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (17) 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 SUBSURFACE INVESTIGATIONS WERE CONDUCTED IN THE VICINITY OF ENGINE BUMP #3 IN AUGUST 1996 AND JUNE 1997. THE AUGUST 1996 INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SHALLOW SOIL BORING DUE NORTH OF THE ENGINE BUMP #3 TO A TD OF 10 FEET BGS. RESULTS AT 10 FEET BGS INDICATED HYDROCARBON IMPACTS AT DEPTH. THE JUNE 1997 INVESTIGATION INCLUDED THE INSTALLATION OF THREE ADDITIONAL SHALLOW BORINGS (EAST, WEST & SOUTH OF THE BUMP) TO A MAXIMUM DEPTH OF 10 FEET BGS. NO HYDROCARBONS WERE DETECTED IN ANY OF THE THREE BORINGS AT DEPTH (10 FEET). INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE FINAL INVESTIGATION REPORT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED JULY 1997.

5. A SHALLOW SUBSURFACE INVESTIGATION WAS PERFORMED IN THE VICINITY OF ENGINE BUMP #3 IN AUGUST 1996. THIS INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE BORING DUE SOUTH OF THE BUMP TO A TD OF 10 FEET BGS. NO HYDROCARBON IMPACTS WERE DETECTED AT DEPTH. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996.

6. A SHALLOW SUBSURFACE INVESTIGATION WAS CONDUCTED ON THE SOUTHWEST CORNER OF THE EMERGENCY FLARE SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED A SHALLOW TRUCK TEST PIT THAT WAS EXCAVATED TO 5 FEET BGS. CONFIRMATION SAMPLES AT DEPTH (5 FEET BGS) WERE BELOW LABORATORY DETECTION LIMITS. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996.

7. AN INTERMEDIATE SUBSURFACE INVESTIGATION WAS PERFORMED IN THE VICINITY OF THE HES FLARE SUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. REMEDIAL ACTIVITIES FOR THE HES FLARE SUMP INCLUDED REMOVAL OF THE BUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 15'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (17) 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.

8. A SUBSURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF FIELD OIL PIT #1 IN NOVEMBER 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS EXTENDING TO 40 FEET BGS. GROUNDWATER WAS NOT ENCOUNTERED DURING THE INSTALLATION OF THE BORING. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE FINAL INVESTIGATION REPORT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED JULY 1997. REMEDIAL ACTIVITIES FOR THE FIELD OIL PIT #1 INCLUDED OVER-EXCAVATION ACTIVITIES THAT WERE PERFORMED IN FEBRUARY 2000. A TOTAL OF 312 CUBIC YARDS OF SOIL WERE REMOVED. REMEDIAL ACTIVITIES ARE DETAILED IN THE 2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. IN 2001.

9. THE EAST SUMP WAS CONSTRUCTED OF CONCRETE AND MEASURED 2' X 2' X 2'. THE EAST SUMP WAS REMOVED IN SEPTEMBER 2000 AND THE AREA WAS OVER-EXCAVATED TO APPROXIMATELY 2' X 12' X 12'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (5) 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 SUBSURFACE INVESTIGATION WAS PERFORMED IN THE DIRECT VICINITY OF THE CONCRETE DRUM SUMP IN SEPTEMBER 2000. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 27 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. REMEDIAL ACTIVITIES FOR THE CONCRETE DRUM SUMP INCLUDED REMOVAL OF THE BUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 15'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (17) 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 24' X 24' X 15' AND HAD A DESIGNED CAPACITY OF 75000 BARRELS (BBLS). USAGE OF THIS 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 180' X 240' X 10' AND HAD A DESIGNED CAPACITY OF 52000 BARRELS (BBLS). USAGE OF THIS 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 2005. THIS FORMER TANK BATTERY LOCATION WAS USED FOR FLUID LNAPL AND PRODUCED WATER STORAGE BY THE GROUNDWATER REMEDIATION SYSTEMS LOCATED ON THE EAST SIDE OF THE PLANT. APPROXIMATELY 350 BBL'S OF FLUIDS WERE RELEASED AND 300 BBL'S WERE RECOVERED. DRAINAGE OF THE FORMER TANK BATTERY IS SUMMARIZED IN A TRANSMITTAL LETTER OF A SEMI-ANNUAL GROUNDWATER MONITORING REPORT FOR THE EUNICE SOUTH GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. DATED MARCH 3, 2006.

14. A SUBSURFACE INVESTIGATION WAS CONDUCTED IN THE VICINITY OF THE FORMER TRUCK LOADING AREA LOCATED SOUTH OF THE PLANT IN NOVEMBER 2006. 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 (25-28 BGS) IN AT LEAST ONE BORING. TWO OF THE THREE WELLS WERE CONVERTED INTO MONITOR WELLS MW-52 & MW-54. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE 2006 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION FOR THE SOUTH EUNICE GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. IN JULY 2006.

15. THE NORTHWEST BRINE WATER RETENTION POND (POND #3) WAS CAPPED IN JULY 2007. DRAINAGE ACTIVITIES OF THE SOUTHWEST BRINE WATER RETENTION POND (POND #3) ARE SUMMARIZED IN THE 2007 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION FOR THE SOUTH EUNICE GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. IN MARCH 7, 2007.

SCALE VERIFICATION

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

Chevron Environmental Management Company

EUNICE SOUTH

RCRA 8 METALS CONCENTRATION MAP

SHALLOW WELLS - AUGUST 2009

Source: Hibernian

USGS 1968 AERIAL

Project Manager: J. ORIELAS

Reviewed By: T. LARSON

Date: AUGUST 2009

Scale: 1:100

Project No: 055271-09

Report No: 002

Drawing No: 019

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