



LEGEND

- TARGA'S ONSITE INJECTION WELL
- MONITOR WELL LOCATION
- 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 ON & WATER PUMP IN JULY 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING DUE SOUTH OF THE PUMP TO A TD OF 50 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH AND LIGHT NON-AQUEOUS PHASE HYDROCARBONS (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 ON & WATER PUMP INCLUDED REMOVAL OF THE PUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (10') INDICATED HYDROCARBON IMPACTS IN THE SOILS. 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 ON & WATER PUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING DUE SOUTH OF THE PUMP TO A TD OF 50 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS IN THE GROUNDWATER. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996. REMEDIAL ACTIVITIES FOR THE ON & WATER PUMP INCLUDED REMOVAL OF THE PUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 20' X 20' X 10'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (10') INDICATED HYDROCARBON IMPACTS IN THE SOILS. 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 JET TURBINE PUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF 3 BORNES RANGING IN TDS FROM 52 AND 57 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS TO BOTH THE SOILS AND GROUNDWATER IN ALL 3 BORNES. TWO OF THE THREE BORNES WERE CONVERTED TO MONITOR WELLS MW-18 & MW-19. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996.
4. TWO SEPARATE SHALLOW SUBSURFACE INVESTIGATIONS WERE CONDUCTED IN THE VICINITY OF ENGINE PUMP #28 IN AUGUST 1996 AND JUNE 1997. THE AUGUST 1996 INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SHALLOW SOIL BORING DUE NORTH OF THE ENGINE PUMP #28 TO A TD OF 10 FEET BGS. RESULTS AT 10' INDICATED HYDROCARBON IMPACTS AT DEPTH. THE JUNE 1997 INVESTIGATION INCLUDED THE INSTALLATION OF THREE ADDITIONAL SHALLOW BORNES (EAST, WEST & SOUTH OF THE PUMP) TO A MAXIMUM DEPTH OF 4 FEET BGS. NO HYDROCARBONS WERE DETECTED IN ANY OF THE THREE BORNES AT DEPTH (4 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 PUMP #31 IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE BORING DUE SOUTH OF THE PUMP TO A TD OF 6 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 PUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED A SHALLOW TRENCH (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 H2S FLARE PUMP IN AUGUST 1996. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 27 FEET BGS. HYDROCARBON IMPACTS WERE DETECTED IN THE SHALLOW (15-27 FEET) SOILS NEAR THE H2S FLARE PUMP. ANALYTICAL RESULTS AT THE 27 FEET BGS INTERVAL WERE BELOW LABORATORY DETECTION LIMITS. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE SUBSURFACE ENVIRONMENTAL ASSESSMENT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED SEPTEMBER 1996.
8. A SUBSURFACE 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 DEPTH (TD) OF FORTY-FOUR (46) FEET BELOW GROUND SURFACE (BGS). ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS EXTENDING TO 40 FEET BGS. GROUNDWATER WAS NOT ENCOUNTERED DURING THE INSTALLATION OF THE BORNES. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE FINAL INVESTIGATION REPORT GENERATED BY HIGHLANDER ENVIRONMENTAL CORP. DATED JULY 1997. REMEDIAL ACTIVITIES FOR THE FIELD OIL PIT "D" 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 BUMP WAS CONSTRUCTED OF CONCRETE AND MEASURED 5' X 6' X 5'. THE EAST BUMP WAS REMOVED IN SEPTEMBER 2000 AND THE AREA WAS OVER-EXCAVATED TO APPROXIMATELY 2' X 13' X 12'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (5') INDICATED HYDROCARBON IMPACTS IN THE SOILS. 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 DRAIN PUMP IN SEPTEMBER 2000. THE INVESTIGATION INCLUDED THE INSTALLATION OF A SINGLE SOIL BORING TO A TD OF 51 FEET BGS. ANALYTICAL RESULTS INDICATED HYDROCARBON IMPACTS AT DEPTH. REMEDIAL ACTIVITIES FOR THE CONCRETE DRAIN PUMP INCLUDED REMOVAL OF THE PUMP IN SEPTEMBER 2000. THE EXCAVATION AREA MEASURED 8' X 17' X 6'. CONFIRMATION SAMPLES FROM THE EXCAVATION AT DEPTH (9') INDICATED HYDROCARBON IMPACTS IN THE SOILS. 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 #3) MEASURED APPROXIMATELY 247' X 247' X 15' AND HAD A DESIGNED CAPACITY OF 75,000 BARRELS (BBL). 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 192' X 240' X 16' AND HAD A DESIGNED CAPACITY OF 62,000 BARRELS (BBL). USAGE OF THIS POND WAS DISCONTINUED IN MID 1998. THE 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 DRAIN AND PRODUCED WATER STORAGE BY THE GROUNDWATER REMEDIATION SYSTEMS LOCATED ON THE EAST SIDE OF THE PLANT. APPROXIMATELY 250 BBL'S OF FLUIDS WERE RELEASED AND 330 BBL'S WERE RECOVERED. DEMOLITION OF THE FORMER TANK BATTERY IS SUMMARIZED IN A TRANSMITTAL LETTER OF A SOIL-AIR-GROUNDWATER MONITORING REPORT FOR THE ELKRE 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 BORNES IN GROUNDWATER. HYDROCARBON IMPACTS WERE DETECTED IN THE SHALLOW (0-5 FEET BGS) AND IN THE INTERMEDIATE (20-30 BGS) IN AT LEAST ONE BORING. TWO OF THE THREE WELLS WERE CONVERTED INTO MONITOR WELLS MW-32 & MW-33. INVESTIGATION ACTIVITIES ARE SUMMARIZED IN THE 2006 ANNUAL SUMMARY OF INVESTIGATION AND REMEDIATION FOR THE SOUTH ELKRE GAS PLANT GENERATED BY SECOR INTERNATIONAL, INC. IN JULY 2006.
15. THE NORTHWEST BRINE WATER RETENTION POND (POND #3) WAS CAPPED IN JULY 2007. DEMOLITION ACTIVITIES OF THE SOUTHWEST BRINE WATER RETENTION POND (POND #3) ARE SUMMARIZED IN THE 2007 ANNUAL SUMMARY OF INVESTIGATION AND REMEDIATION FOR THE SOUTH ELKRE 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

EUNE SOUTH

SITE DETAILS MAP
EUNE, NEW MEXICO



Source Reference: USGS 1999 AERIAL

Project Manager:	Reviewed By:	Date:
J. ORNELAS	T. LARSON	AUGUST 2009
Scale:	Project No:	Report No:
1:100	055271-09	002
		002

055271-09(02)2009-MD002 DEP 25