

WCS' Current and Expanding Capabilities

**WM Symposia
March 3, 2009**

**Presented by: David Cronshaw
Senior VP, Business Development**



Site Location

Total Area

14,865 acres

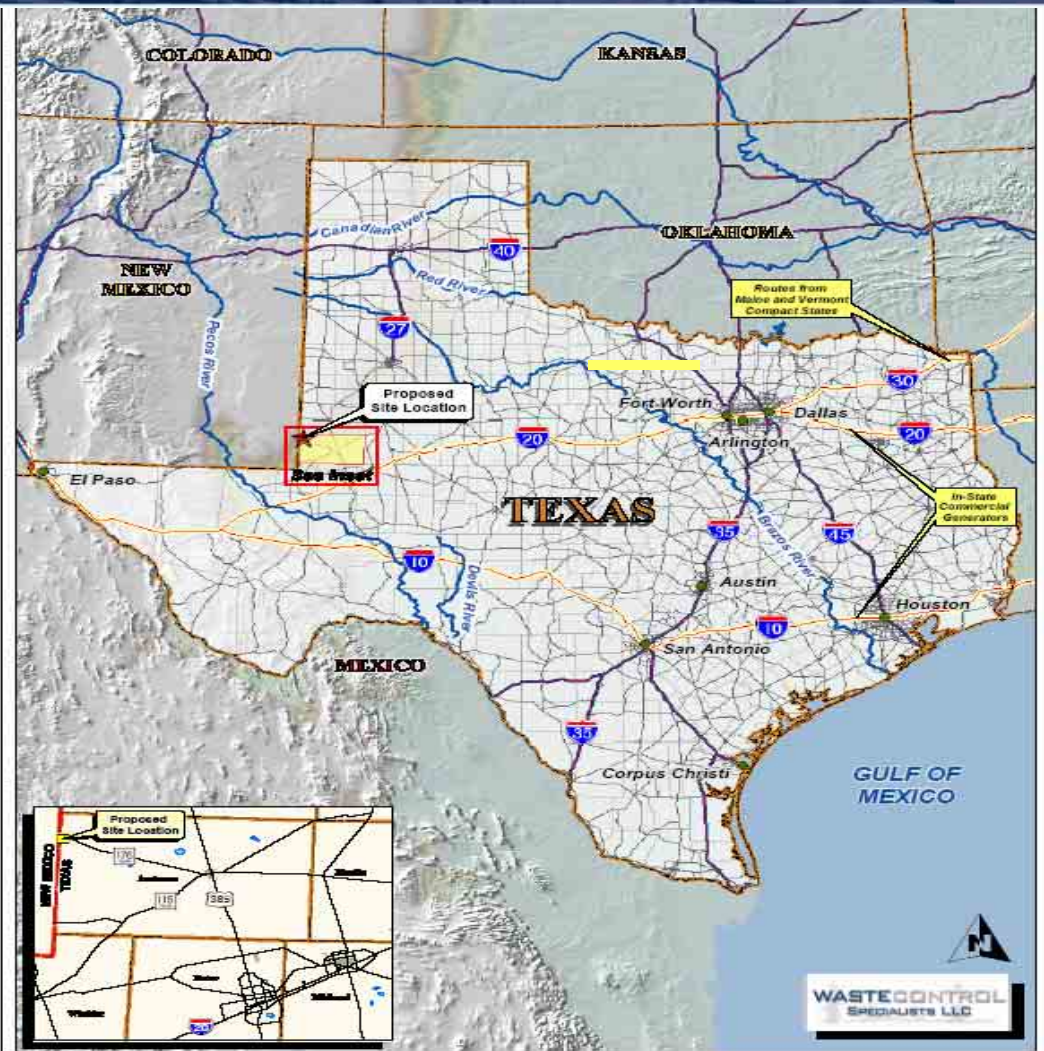
Texas

13,882 acres

1,338 acres permitted

New Mexico

983 acres



I.L.W Transportation Routes

WASTECONTROL
SPECIALISTS LLC

Aerial Photo Looking North – Wide View



WASTECONTROL
SPECIALISTS LLC



Aerial Photo Looking South – Close View



Authorizations

- ▶ Permit # HW-50358 for Industrial Solid Waste and Hazardous Waste treatment, storage, and disposal (Resource Conservation and Recovery Act [RCRA] equivalent) – issued by the TCEQ in August 1994
- ▶ Authorization # TXD988088464 for treatment, storage, and land disposal of Toxic Substances Control Act (TSCA) wastes, including Polychlorinated biphenyl (PCB) solids and processing of PCB liquids - issued by the U.S. Environmental Protection Agency (EPA) in December 1994
- ▶ License # R04971 for Low-Level Radioactive Waste (LLW) Treatment, Processing, and Storage - issued in February 1997 and allowing storage and processing of Class A, B, C and GTCC LLW as well as TRU and byproduct 11e.(2) material

Authorizations

- ▶ Exemption to treat and store Special Nuclear Material (SNM) below certain concentration limits based on criticality – issued by the U.S. Nuclear Regulatory Commission (NRC) in Nov. 2001
- ▶ Permit # HW-50397 for Hazardous and Industrial Solid Waste Disposal (RCRA equivalent) – issued by the TCEQ in December 2008 for FWF licensed under License #R04100.

Recent Authorizations

- ▶ License #R05807 for disposal of byproduct material – issued by TCEQ in May 2008 - Construction started in August 2008
- ▶ License # R04100 for Low-Level Radioactive Waste (LLW) disposal – pending signature by TCEQ and allowing disposal of federal and Texas Compact Class A, B & C LLW

Current Capabilities

Hazardous Waste Treatment

20,000 ft² Stabilization Building for
treatment of hazardous and toxic wastes



Mixed Waste Treatment

20,000 ft², HEPA filtered, Mixed Waste Treatment Facility (MWTF) with remote-controlled mixing and external monitoring/recording in an 85 yd³ pan



Volumetric Storage Limits

1,802,865 ft³ with the following building/area limitations:

1. 8,000 ft³ in the Stabilization Building
2. 36,750 ft³ in the Container Storage Building (CSB)
3. 262,440 ft³ in three Bin/Bulk Storage Units (BSUs); each BSU is divided into three bin/bulk storage areas (BSAs 1-9), of which one (BSA-1) is covered
4. 1,500,000 ft³ on the Low Specific Activity (LSA) pad

Select Radionuclide Possession Limits

- 35,000 curies (Ci) of Category I* (e.g., Am, Cm, Pu, Ra)
 - 2,000 Ci may be liquid
- 20,000 Ci of Category II* (e.g., Pb-210, Sr-90)
- 200,000 Ci of Category III* (e.g., Co-60, Cs-137, I-129)
- 2,000,000 Ci of Category IV* (e.g., Cs-135, Tc-99)
- 150,000 Ci of Sealed Sources (SNM concentration limits apply)

* *Categories defined in the Texas Administrative Code (TAC) Title 30, Part 336.1231*

The Container Storage Building (CSB)

Currently
stores
Greater
than Class
C LLW



Bin/Bulk Storage Units (BSUs) 1-3 (= BSAs 1-9)



The Low-Specific Activity (LSA) Pad

- Currently stores 3,776 steel canisters with 11e.(2) byproduct material from Fernald Silos 1 and 2
- Will be used for storage of Studsvik reformed resins



LLRW Storage Pending Disposal

- No Time Limit on Storage - *LDR compliant*
- Studsvik reformed resins
- Irradiated hardware
- Large components
- Other

WCS/Studsvik Teaming Agreement

- Turn-key treatment & storage
- Financial assurance in place
- Contract signed for Class B & C Low Level Rad Waste storage
- First shipment planned for later this month

Current Disposal Capabilities

- Current license allows for disposal of up to ~ 5.4M yd³ of RCRA, CERCLA, TSCA, and TX exempt radioactive waste



Future Capabilities

Byproduct Disposal License

- TCEQ Commissioners denied hearing requests and granted license on May 21, 2008
- License R05807 issued May 29, 2008
- Construction mobilization started mid-August
- Expect to start safely disposing byproduct material in mid-2009—beginning with Fernald Silos 1 & 2 canisters
- Disposal limited to 1,169,000 cubic yards and 24,530 curies

Byproduct Authorizations

- Receipt and disposal of Byproduct material as defined in Title 30 of the Texas Administrative Code, Section 336.1105 (4)
- Authorization covers dry, discrete solid objects and containerized bulk, i.e. soil or soil-like Byproduct material received by road
- Containers shall be sealed, flexible or rigid drums, pails, boxes, sacks, or similar containers that do not tear, split, or rupture upon handling, placement, and compaction in the disposal unit, or lose their structural strength and integrity when contacting water. Acceptable containers include (but are not limited to) U.S. DOT containers. Containers shall not contain free liquids or more than 15% void space.

Low-Level Waste Disposal License

- Two facilities for safe disposal of:
 - Texas Compact Class A/B/C LLW
 - Federal Class A/B/C LLW and MLLW
- TCEQ Commissioners denied hearing requests and ordered a final license on January 14, 2009
 - Issuance of license to follow condemnation of small remaining mineral interest ownership (approximately 1 percent)
- Construction of facilities will take approximately one year
 - After completion of pre-construction modeling, plans, docs. etc.
- Expect to start disposing of LLW by July 2010

Low-Level Waste Disposal License

- TX Compact Waste Disposal Facility:
 - 2,310,000 cubic feet and 3,890,000 curies
- Federal Waste Disposal Facility:
 - 26,000,000 cubic feet and 5,600,000 curies total
 - 8,100,000 cubic feet and 5,500,000 curies of containerized Class A, Class B, and Class C

Waste Acceptance

- Class A/B/C
- DOT Approved Containers
- SNM Limits – 350g U/ 200g Pu
- Containerized and Non-containerized (FWF)
- Containerized (CWF)
- Sealed Sources
- Generator Certification
- Waste Profile Approval

Texas Compact Commission

Texas Low-Level Radioactive Waste Disposal Compact Commission named – Has statutory authority to, among other things, “[e]nter into an agreement with any person, state, regional body, or group of states for the importation of low-level radioactive waste into the compact for management or disposal.”

Texas Compact Commission

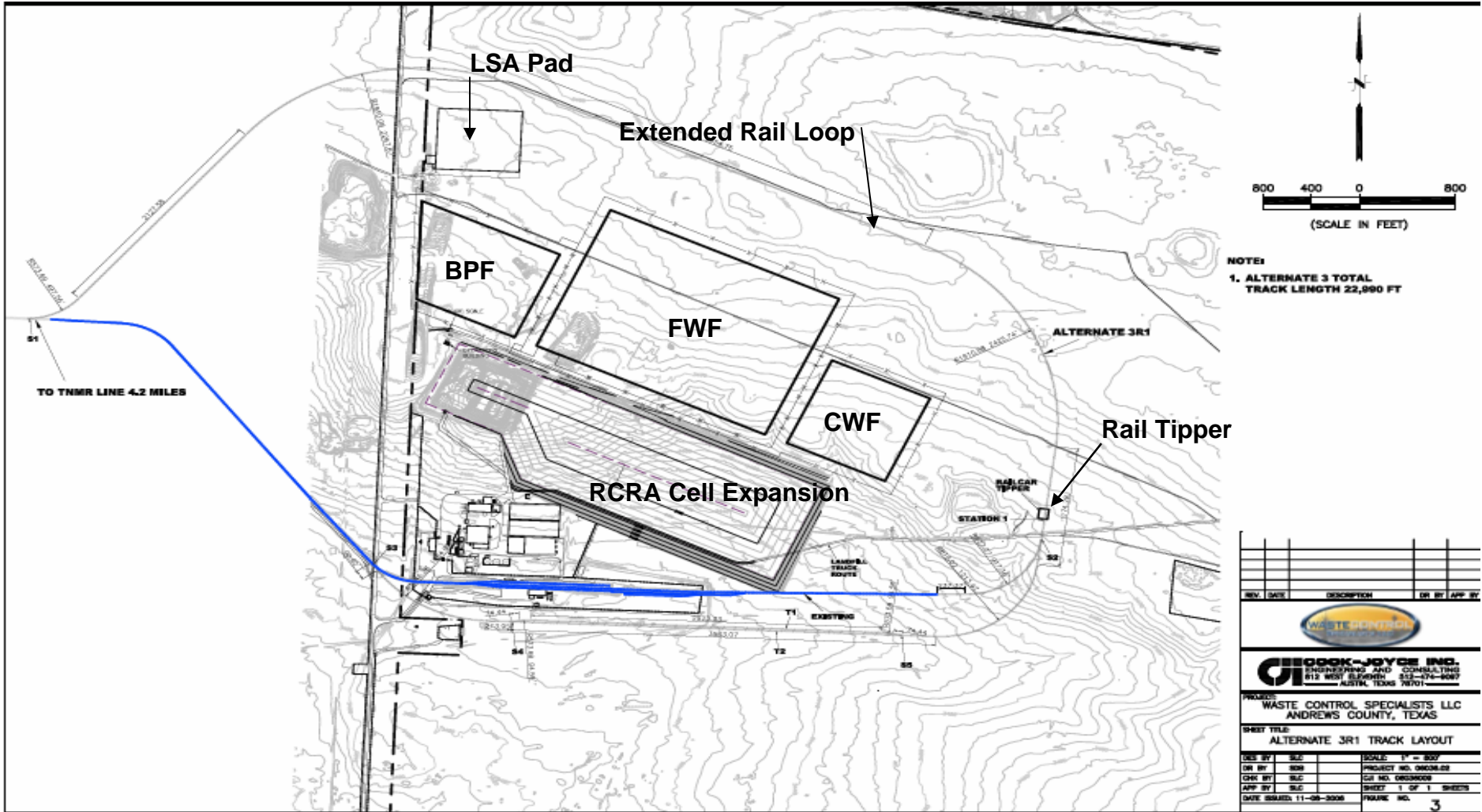
- Initial meeting on February 13th
 - Established interagency contract with TCEQ for initial funding
- Working meeting on February 26 – 27th
 - Discussed authority, funding, potential rules on import and export

Major Infrastructure Improvements

\$80 Million Contract Signed with URS for design and construction:

- Byproduct disposal landfill & support facilities
- LLRW disposal landfill & support facilities
- Extended rail
- Rail car tipper

Planned Infrastructure Improvements



NOTE:
1. ALTERNATE 3R1 TOTAL TRACK LENGTH 22,900 FT

REV.	DATE	DESCRIPTION	DR BY	APP BY

WASTE CONTROL
SPECIALISTS LLC

CRONK-JOYCE INC.
ENGINEERS AND CONSULTANTS
812 WEST BURNETT ST. #100
AUSTIN, TEXAS 78701

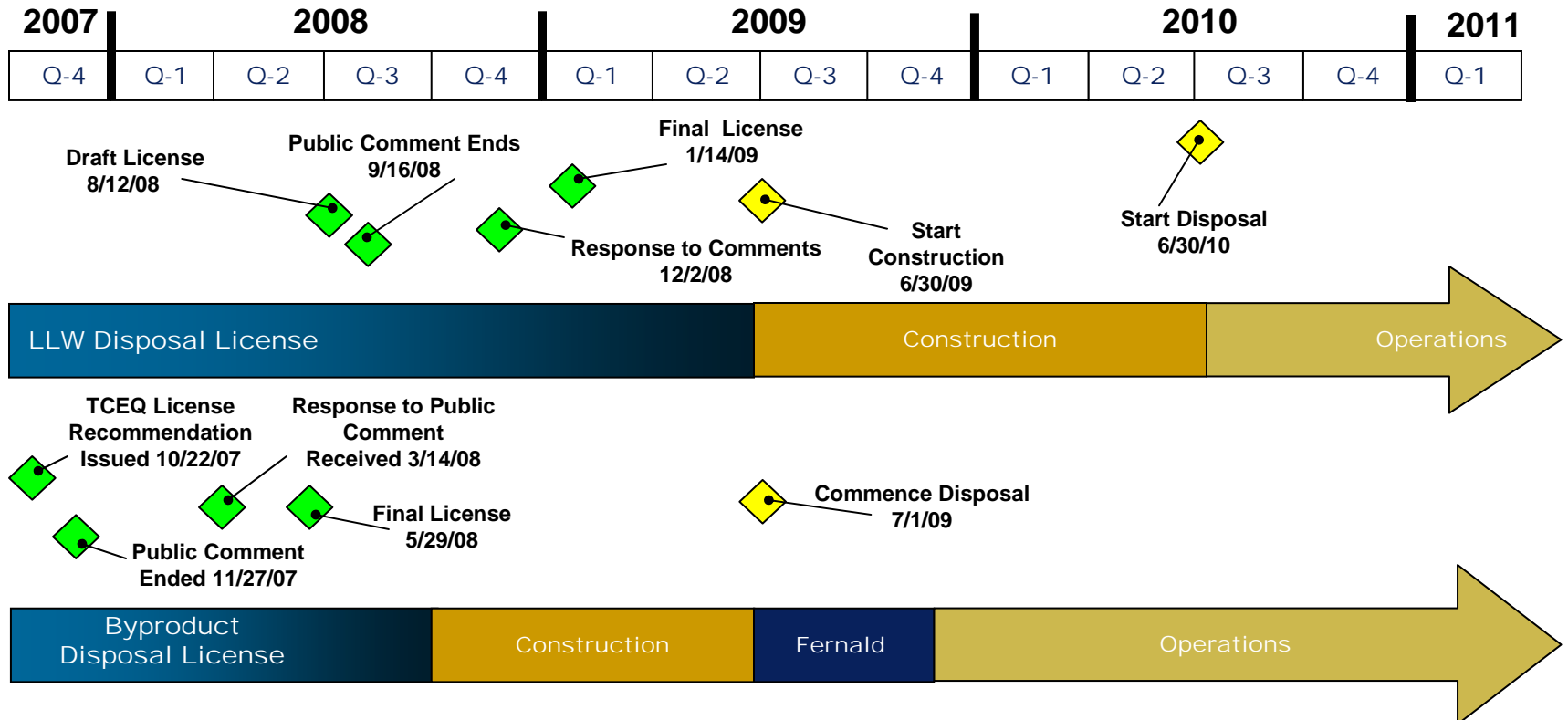
PROJECT: WASTE CONTROL SPECIALISTS LLC
ANDREWS COUNTY, TEXAS

SHEET TITLE:
ALTERNATE 3R1 TRACK LAYOUT

DES BY	SLC	SCALE	1" = 800'
CHK BY	SLC	PROJECT NO.	0808008
APP BY	SLC	CUI NO.	0808008
DATE ISSUED	11-09-2008	SHEET	1 OF 1 SHEETS
		FRAME NO.	3

Vision of the Future

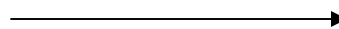
Licensing Initiatives



Expanding Capabilities

Authorizations with Completed Facilities

- RCRA/TSCA/CERCLA Landfill
- Exempt Radioactive Waste Disposal
- LLW/MLLW Treatment/Storage



Authorizations with Facilities Under Construction

- Class A, B & C LLW Disposal for Texas Compact
- Class A, B & C LLW/MLLW Disposal for DOE
- Byproduct [11e.(2)] Material Disposal

Planned License Amendments

Byproduct

- Disposal of uncontainerized waste
- Receipt of bulk waste by rail
- Disposal of NORM and pre-78 11e2

LLRW

- Disposal of soil-like-material as bulk
- Disposal of debris as bulk
- Receipt of waste by rail (containerized & bulk)
- Disposal of DUF6 conversion waste